

# **Lexington-Fayette Urban County Government**

Lexington, Kentucky Horse Capital of the World

Division of Central Purchasing

Date of Issue: February, 22, 2016

#### **INVITATION TO BID #27-2016 Swimming Pool Chemicals**

<b>Bid Opening Date:</b> Address:		<b>016</b> ain Street, 3 <sup>rd</sup> Floor, Room 338, Lexington, Kentucky 40507	ppening Time: 2:00 PM
Type of Bid:	Price Contr	act	
Pre Bld Meeting: Address:	<b>N/A</b> N/A	Pre Bld Time:	N/A
		office of the Division of Central Purchasing, 200 East Main Street, Lexing  16. Bids must be <u>received</u> by the above-mentioned date and time. Maile	
		Division of Central Purchasing 200 East Main Street, Room 338 Lexington, KY 40507, (859) 258-3320	
above. Bids that are	e not deliver	ity Government assumes no responsibility for bids that are not addressed to the Division of Central Purchasing by the stated time and any name and address, bid invitation number, and the name of the bid on	<b>date will be rejected.</b> All bid
Bids are to include all	shipping costs	to the point of delivery located at: See Specifications	
Bid Security Required:	Y	es X_No Cashler Check, Certified Check, Bld Bond (Personal checks and co	mpany checis will not be acceptable).
Performance Bond Re	quired:Y	es <u>X</u> No	
Bid Specific	ations Met	Check One;  Exceptions to Bld Specifications. Exceptions shall be itemized and attached to bid proposal submitted.	Proposed Delivery: 2 days after acceptance of bid.
		Lexington-Fayette Urban County Government may be using Procuremen ments. Will you accept Procurement Cards?	t Cards to purchase goods
Sut	omitted by:	Brenntag Mid-South, I Firm Name 324 F. Yusen Drive	nC.
		Address Georgetown Ky 4032 Gig State & Zip	4_
Bid must L	_	Dod Dure	
(original sign	nature)	Representative's Name (Typed or printed)	
Fice 502-863 0084	Cell	: 859-312-1928 502-863 Area Code - Phone - Extension Fax #	3-2523
		E-Mail Address	<del></del>

	AFFIDAVIT
per	Comes the Affiant,
1.	HIs/her name is
	authorized representative of BRENNTAG MID-SOWTH, INC.
	the entity submitting the bid (hereinafter referred to as "Bidder")
2.	Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.
3.	Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.
4.	Bidder has authorized the Division of Central Purchasing to verify the above-mentioned Information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.
5.	Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.
6.	Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of OrdInances, known as "Ethics Act."
7.	Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.
	Further, Affiant sayeth naught.
ST	unty of Scott
CO	UNTY OF Scott
	The foregoing instrument was subscribed, sworn to and acknowledged before me
by .	David Davine on this the 29 th day
	February , 2016.
	My Commission expires: March 13, 2018  PAULA C. KEITH  NOTARY PUBLIC  KENTUCKY STATE AT LARGE
	Paula C. Kuth
	NOTARY PUBLIC, STATE AT LARGE
Ple	ease refer to Section II. Bid Conditions, Item "U" prior to completing this form.

#### I. GREEN PROCUREMENT

#### A. ENERGY

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to <a href="https://www.Energystar.gov">www.Energystar.gov</a>). If these products are available, but not submitted in your pricing, your bid will be rejected as <a href="https://www.energystar.gov">non-compliant</a>.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

#### **Key Benefits**

These products use 25 to 50% less energy
Reduced energy costs without compromising quality or performance
Reduced air pollution because fewer fossil fuels are burned
Significant return on investment
Extended product life and decreased maintenance

#### **B. GREEN SEAL CERTIFIED PRODUCTS**

The Lexington-Fayette Urban County Government is also committed to using other environmentally products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to <u>www.Greenseal.org</u> to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed walver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

#### C. GREEN COMMUNITY

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

Yes \_\_\_\_\_ No\_\_\_\_

#### II. <u>Bid Conditions</u>

- A. No bld may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject <u>any</u> and <u>all</u> bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:

#### "Bid on #27-2016 Swimming Pool Chemicals"

and addressed to: Division of Central Purchasing

200 East Main Street, Room 338 Lexington, Kentucky 40507

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

- K. Bldder is requested to show both unit prices and lot prices. In the event of error, the unit price shall prevail.
- L. A certified check or Bid Bond in the amount of <u>XX</u> percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of fallure to perform within the time period set forth in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has been awarded.
- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bld invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.

- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or Indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.

#### The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.
- (2) Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.

KRS 45.620. Action against contractor - HIring of minority contractor or subcontractor

- (1) If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.
- (2) If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.

(3) The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.

#### KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions above quoted to be included as <u>special conditions</u> in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and
- (2) Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

#### III. Procurement Contract Bid Conditions

- A. The terms of this agreement shall be for <u>1</u> year(s) from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be automatically extended for an additional <u>1</u> year(s) renewal. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of Intent to cancel to the other contracting party.
- B. Price Changes (Space Checked Applies)
- (XXX) 1. Prices quoted in response to the Invitation shall be firm prices for the first 90 days of the Procurement Contract. After 90 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per quarter. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.
  - () 2. No provision for price change is made herein. Prices are to be firm for the term of this contract.
  - () 3. Procurement Level Contract
- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the item on the open market.
- D. All invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.
- E. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.
- F. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.

#### The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

The Contractor will not discriminate against any employee or applicant for employment because of physical or mental disability.

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
  - Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.

The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

#### <u>Bidders</u>

I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, veteran status, disability and age.

Signature

1 Srenntag Mid-South, Inc.

#### **GENERAL PROVISIONS OF BID CONTRACT**

By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

- Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
- 2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
- 3. Addenda: All addenda, If any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
- Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to
  walve minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic
  needs.
- Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
- 6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
- 7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
- 8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
- 9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
- 10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
- Agreement to Bid Terms: In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.
- 12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.

- Assignment of Contract: The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
- 14. No Waiver: No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
- 15. Authority to do Business: Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
- 16. Governing Law: This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
- 17. Ability to Meet Obligations: Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.
- 18. Bidder understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.
- 19. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.

Signature

Date

# RISK MANAGEMENT PROVISIONS INSURANCE AND INDEMNIFICATION

#### INDEMNIFICATION AND HOLD HARMLESS PROVISION

- (1) It is understood and agreed by the parties that Vendor hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of Vendor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "Vendor") under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- Vendor shall indemnlfy, save, hold harmless and defend the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, volunteers, and successors in Interest (hereinafter "LFUCG") from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by Vendor's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the Vendor; and (b) not caused solely by the active negligence or willful misconduct of LFUCG.
- (3) In the event LFUCG is alleged to be liable based upon the above, Vendor shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by LFUCG, which approval shall not be unreasonably withheld.
- (4) These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.

#### FINANCIAL RESPONSIBILITY

BIDDER/VENDOR understands and agrees that it shall, prior to final acceptance of its bid and the commencement of any work, demonstrate the ability to assure compliance with the above indemnity provisions and these other risk management provisions.

#### **INSURANCE REQUIREMENTS**

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AAND YOU MAY NEED TO CONFER WITH YOUR INSURANCE AGENTS, BROKERS, OR CARRIERS TO DETERMINE IN ADVANCE OF SUBMISSION OF A RESPONSE THE AVAILABILITY OF THE INSURANCE COVERAGES AND ENDORSEMENTS REQUIRED HEREIN. IF YOU FAIL TO COMPLY WITH THE INSURANCE REQUIREMENTS BELOW, YOU MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

#### Required Insurance Coverage

BIDDER/VENDOR shall procure and maintain for the duration of this contract the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to LFUCG in order to protect

OWNER against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by LFUCG. The cost of such insurance shall be included in any bld:

<u>Coverage</u> <u>Limits</u>

General Liability \$1 million per occurrence, \$2 million aggregate (Insurance Services Office Form CG 00 01) or \$2 million combined single limit

Commercial Automobile Liability combined single, \$1 million per occurrence (Insurance Services Office Form CA 0001)

Worker's Compensation Statutory

Employer's Liability \$500,000.00

The policies above shall contain the following conditions:

- a. All Certificates of Insurance forms used by the insurance carrier shall be properly filed and approved by the Department of Insurance for the Commonwealth of Kentucky. LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI approved forms.
- The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. The General Liability Policy shall include a Pollution liability and/or Environmental Casualty endorsement unless it is deemed not to apply by OWNER.
- d. LFUCG shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- e. Said coverage shall be written by insurers acceptable to LFUCG and shall be in a form acceptable to LFUCG. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

#### Renewals

After insurance has been approved by OWNER, evidence of renewal of an expiring policy must be submitted to OWNER, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these insurance Requirements.

#### <u>Deductibles and Self-Insured Programs</u>

IF YOU INTEND TO SUBMIT A SELF-INSURANCE PLAN IT MUST BE FORWARDED TO LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF RISK MANAGEMENT, 200 EAST MAIN STREET, LEXINGTON, KENTUCKY 40507 NO LATER THAN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE RESPONSE DATE. Self-insurance programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon review of evidence of BIDDER/VENDOR's financial capacity to respond to claims. Any such programs or retentions must provide LFUCG with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If BIDDER/VENDOR

satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, BIDDER/VENDOR agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- Latest audited financial statement, including auditor's notes.
- Any records of any self-insured trust fund plan or policy and related accounting statements.
- Actuarial funding reports or retained losses.
- d. Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- Self-Insured Associations will be considered.

#### Verification of Coverage

BIDDER/VENDOR agrees to furnish LFUCG with all applicable Certificates of Insurance signed by a person authorized by the insurer to bind coverage on its behalf prior to final award, and if requested, shall provide LFUCG copies of all insurance policies, including all endorsements.

#### Right to Review, Audit and Inspect

CONSULANT understands and agrees that LFUCG may review, audit and inspect any and all of its records and operations to insure compliance with these insurance Requirements.

#### **DEFAULT**

BIDDER/VENDOR understands and agrees that the failure to comply with any of these Insurance, safety, or loss control provisions shall constitute default and that LFUCG may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging BIDDER/VENDOR for any such insurance premiums purchased, or suspending or terminating the work.

00335709

# SWIMMING POOL CHEMICALS SPECIFICATION

•	All bidders must supply material safety data information on products bid with their bid proposal.  All pallets shall be stacked so that they may clear 42" wide opening.  All products in bags need to be labeled properly with product description  Bags need to be 5-ply with waterproof layers.
1.	Calcium Chloride - packaged in 50 pound net bags. Bags shall be delivered on pallets.  The Lexington-Fayette Urban County Government will not pay a deposit or holding charge for the use of the pallets.
	# 118835 Price per bag \$ 12.95 13ag
2.	Liquid Chlorine (Sodium Hypochlorite 12%) – Delivery by vendor to seven (7) pool sites weekly or more frequently as needed. Storage containers to be provided by the Lexington-Fayette Urban County Government.
	The Vendor/Hauler must comply with the Hazardous Materials Regulation of the Department of Transportation contained in Federal Regulation #49CFR.
	All drivers must have a valid Commercial Driver's License (CDL)
	# 841174 Price per gallon S 1.19 Gac.
3.	Hydrochloric Acid (Muriatic Acid) – packaged in one-gallon containers. Delivery by vendor to seven (7) pool sites weekly or more frequently as needed. Containers shall be delivered on pallets. The Lexington-Fayette Urban County Government will not pay a deposit or holding charge for the use of the pallets.
	# 7839 Z 3 Price per gallon \$ 3.35   GAL.
4.	Prochlor sticks – packaged in 50 lb. buckets. Buckets shall be delivered on pallets. The Lexington-Fayette Urban County Government will not pay a deposit or holding charge for the use of the pallets.
	# Price per bucket \$ 165. EACH
5.	Harborlite AquaPerl (Perlite, amorphous alumina silicate) – packaged in 24 lb. bags.  Bags shall be delivered on pallets. The Lexington-Fayette Urban County Government will not pay a deposit or holding charge for the use of the pallets.
	Celaperl (Same as Harborite Aquaterl)
	25 LB-Begs
	#205578 Price xerbag # 45. Bag

#### **Delivery Instructions:**

The liquid chlorine is to be delivered to the following sites:

<u>Pool</u>		Location	
1.	Castlewood Pool	Park View Drive	
2.	Douglass Pool	Howard Street	
3.	Shillito Pool	Reynolds Road	
4.	Southland Pool	Hill n' Dale Drive	
5.	Tates Creek Pool	Gainesway Drive	
6.	Woodland Pool	Park Avenue	
7.	Picadome Pool	Parkway Drive	

Delivery truck not to exceed 3,000 gallon capacity. Delivery truck must be equipped with a minimum of 250 feet of supply hose.

The successful bidder must provide evidence of commercial liability, pollution liability, and statutory workers compensation.

# Brenntag Mid-South Equipment for Delivery of Odor Control Chemicals

Sodium Hydroxide 25% & 50% Sodium Hypochlorite 12.5%

Deliveries will made with 2,000 Gallon Mini-bulk tanktrucks in quantities of 500 gallons to 2,000 gallons.

These mini-tanktrucks will allow for easy and safe entry and unloading at treatment facilities.

The trucks are equiped with a PTO pump and compatible hose for the materials required.

Hookups will be hard quick couple connects.

All delivery drivers will have current CDL with Hazmat and Tanker endorsements and will be trained and experienced in the delivery of the required material using this equipment.

Brenntag Mid-South drivers are familiar with the LFUCG locations and with deliveries of the required materials as Brenntag has maintained serviced these requirements for the past pears.

14

# BRENNTAG MID-SOUTH, INC. PROCESS DESCRIPTION Branch 40

Page 1 of 3

PROCESS DESCRIPTION:

Unloading Tank Trucks/Trailers Into Customer

Storage Tanks.

DATE:

September 10, 2008

#### **SCOPE**

Process Description to follow when unloading tank trucks/trailers containing Corrosive and non-hazardous liquids into Customer storage tanks.

#### **DEFINITION**

This has been prepared to insure that Tank Truck/Trailers are unloaded into Customer storage tanks according to company guidelines established to insure safety and quality standards are met.

#### DESCRIPTION

- 1. Check bill of lading and verify proper material is being delivered.
- 2. Obtain scale ticket from customer if necessary.
- 3. Weigh tank truck/trailer and position at unloading area and chock wheels.

Caution: Insure proper protective equipment is worn to comply with Brenntag Mid-South, Inc. requirements and any additional Customer PPE requirements.

- 4. Contact appropriate person at customer location to verify proper unloading line and storage tank to connect to for unloading and that the tank will hold the amount of material being delivered.
- 5. Insure all **non-essential personnel** are a minimum of 25 feet away from unloading area.
- 6. Connect transfer hose to customer piping.
- 7. Fill out the required area of the Tanker Unloading Form (use form from operations procedure 5.1) and have the Customer Sign for authorization to unload.

Issue Date: November 30, 2001

Revision Date:

Note: Unloading can be accomplished by air padding using tractor supplied air, pump or customer supplied air. The tractor supplied air or pump should be used when possible. When using the pump, insure the truck/trailer is vented to prevent a vacuum on the truck/trailer due to the product leaving the tank.

CAUTION: When using customer-supplied air <u>DO NOT</u> pressurize the truck/trailer until it is verified that the air is regulated at a MAXIMUM of 30 PSIG pressure.

- 8. With the air supply valve on the truck/trailer closed, connect the air line to the truck/trailer.
- 9. Open product valve slowly and check for leaks. (Repair if needed)
  - CAUTION: Do not attempt to repair leaks while under pressure. Close air supply valve and product valve. Clear line of product and pressure before disconnecting. Repair leak with new gasket, hose, fitting etc. (Never use shims, double gaskets or other unauthorized methods to repair or stop leaks.)
- 10. If no leaks were discovered, open customer valve and continue to monitor and unload.
- 11. Slowly open the air supply valve on the truck/trailer and monitor pressure.
- Upon completion of unloading, turn off air supply or pump then close the product valve on the trailer and purge product hose, then close the customer valve and release the pressure and drain transfer hose.
  - 13. Disconnect airline and release pressure on tank truck/trailer. ( If required. )
  - 14. Disconnect transfer hose from product piping and tank truck/trailer.
  - 15. Weigh tank truck/trailer.
  - Complete Tanker Unloading Form and have customer sign the Bill of Lading and give customer their copy.

Issue Date: November 30, 2001

Revision Date:

#### **CONSEQUENCE OF DEVIATION**

Corrosive Liquids if not handled properly and safely, could result in a serious incident that could affect our employees, the general public, and the environment. Failure to follow this procedure when unloading product could cause a release of liquid.

#### **EMERGENCY SHUTDOWN**

In the event of an emergency shutdown, follow the branch's *Emergency Contingency Plan*.

#### TEMPORARY OPERATIONS

Brenntag will not operate under temporary operations.

#### AREAS THAT DO NOT APPLY TO THIS PROCEDURE

- 1. Initial Startup
- 2. Emergency Operations

Written By: Preston Porter

Approved By: Chris Dawson

Issue Date: November 30, 2001

Revision Date:

# BRENNTAG MID-SOUTH MINI BULK TANKER UNLOADING REPORT

Dispatcher or designee must attach blank form to delivery ticket for bulk shipments Section I: Verify General Delivery Information Prior to Departure DATE:\_\_\_\_\_ TANKER#:\_\_\_\_ UN #:\_\_\_\_\_ CUSTOMER/LOCATION: SHIPPER #: PRODUCT: YES\_\_\_\_ NO\_\_\_\_ UN# PLACARD ON TANKER AGREES WITH DOT SHIPPING NAME ON SHIPPER If No, STOP and REPORT ANY DISCREPANCIES TO DISPATCHER and/or MANAGEMENT PERSONNEL ADDITIONAL REQUIREMENTS IN HEADER AND ITEM NOTES HAVE BEEN READ NOTE: FOR MULTIPLE DELIVERIES USE SEPARATE FORM Section II: Site Assessment SAFETY SHOWER OR WATER AVAILABLE YES\_\_\_\_NO\_\_\_ UNLOADING LINE PROPERLY LABELED FOR PRODUCT BEING UNLOADED YES NO STORAGE TANK(S) PROPERLY LABELED FOR PRODUCT BEING UNLOADED YES\_\_ NO\_\_\_ HOSE RUNS DO NOT EXCEED 150', RUN THRU AREAS WHERE THERE IS PEDESTRIAN YES NO\_\_\_\_ OR VEHICLE TRAFFIC OR THRU BUILDINGS WHERE PEDESTRIANS WORK HOSE CONNECTED TO RIDGED UNLOADING LINE OR SECURED SAFELY YES NO NOTE: IF ANY OF THE ABOVE IS ANSWERED NO. DRIVER MUST CONTACT BRENNTAG MID-SOUTH MANAGEMENT PRIOR TO UNLOADING. YES\_\_\_\_ NO\_\_\_ STORAGE TANK LEVEL WITHIN VIEW FROM UNLGADING AREA (see note below) NOTE: IF NO, CUSTOMER ASSISTANCE REQUIRED FOR UNLOADING Section III: Customer Authorization To Unload YES\_\_\_\_NO\_\_\_CAPACITY TO ACCEPT LOAD NO \_\_\_\_ TANKER CONNECTED TO PROPER PRODUCT UNLOADING LINE CUSTOMER HOSES USED: YES\_\_\_\_ NO\_\_\_ NOTE: IF YES SIGNATURE BELOW DENOTES THAT HOSES ARE IN GOOD CONDITION AND COMPATIBLE WITH PRODUCT BEING UNLOADED BY:\_ (Customer Signature) NOTE: SIGNATURE MUST BE OBTAINED AFTER LINE CONNECTION HAS BEEN MADE Section IV: Unloading Information (use back side if necessary) GRAVITY: TRUCK AIR:\_\_\_\_ TRUCK PUMP:\_\_\_\_ CUSTOMER AIR/PUMP:\_\_\_\_ YES\_\_\_\_\_ NO\_\_\_ TANKER COMPLETELY EMPTIED. YES\_\_\_\_ NO\_\_\_ TANKER PRESSURE RELIEVED ANY SPILLS OR INCIDENTS: YES\_\_\_\_\_ NO\_\_\_\_; IF Yes, please record comments and report any problems Comments: Section V: Product Delivery Information QUANTITY DELIVERED: \_\_\_\_\_ LBS. OR GALLONS Comments: Retain completed form with Delivery Ticket Revision Date: 3/25/08 DRIVER SIGNATURE: \_\_\_\_\_ CARRIER: \_\_\_ REVIEWED BY: (initials) \_\_\_\_\_

## **DRIVER'S** TRAINING MANUAL

ISSUED: 05/01/00 APPROVED BY: David Garner

REVISED: 09/20/02

CONTACT: Fred Nichols

Unloading Chemicals Into Bulk at Customer Site

Section: 5.9 **Delivery To Customer** 

Brenntag transports and delivers many types of chemical products every day into bulk storage at customer sites. Mishandling could easily result in environmental damage, serious personal injury or even death. It is imperative that all drivers involved in this process be familiar with the hazards and procedures of handling all types of chemical and follow all safety precautions. Only drivers who have received training in the properties, characteristics, safety and first aid requirements for each chemical product may unload these products. The customer's plant operations procedures may take precedence over this general training.

Drivers must first be trained on Operations Procedure No. 5.1, Tank Trailer Unloading, which covers unloading tank trailers. Also see Section 7.2 of this manual when unloading flammable or combustible materials. Drivers are to use the following guidelines when unloading at a customer's site.

- 1. Complete Section II and III, of the <u>BRENNTAG MID-SOUTH</u> TANKER UNLOADING REPORT.
- 2. Drivers must be in attendance throughout the unloading process unless relieved by the customer's employees.
- 3. Tank trailer is to be chocked on both sides of at least one tire during the unloading process.
- 4. Driver must wear the correct personal protective equipment.
- 5. Place drip pan or bucket under transfer hose connections, if appropriate.
- 6. After transfer of product into customer storage is complete. Driver will close all appropriate valves and turn off appropriate pump.
- 7. Disconnect transfer product hose from tank trailer and drain remaining product into drip pan bucket or where customer wants you to. Return product transfer hoses to hose racks.
- 8. Secure dome lids and all valves.
- 9. Complete Section IV of the <u>BRENNTAG MID-SOUTH TANKER</u> UNLOADING REPORT and any other required paperwork.
- 10. Complete Section V of the <u>BRENNTAG MID-SOUTH TANKER</u> UNLOADING REPORT after arriving back at your plant site. Attach completed form to delivery ticket.
- 11. Completed form should be reviewed by and signed or initialed by Dispatcher, Customer Service Manager or designee.

Brenntag has a number of trucks equipped with air blowers and/or product pump. These

37. K = 1

units are used to unload different chemicals at the customer location. In order to properly maintain and operate this equipment, <u>Procedure No. 5.14, Tank Trailer Unloading With J 100 Compressor & Product Pumps</u>, found in the Operations Procedure Manual shall be used to train drivers.

# **DRIVER'S** TRAINING MANUAL

ISSUED: 05/01/00 APPROVED BY: David Garner

CONTACT: Fred Nichols REVISED:

Loading & Unloading Tank Trailers

Section: 5.8 Delivery To Customer

Brenntag Mid-South, Inc. unloads various products from tank trailers into bulk storage tanks. Mishandling could easily result in environmental damage, serious personal injury or even death. It is imperative that our drivers involved in this process be familiar with the hazards and procedures of handling all types of products that we unload from tank trailers and that they follow all safety precautions. Only drivers who have received training in chemical properties, characteristics, health and safety for each product may proceed with unloading of tank trailers.

Before any driver may unload or pull a tank trailer they must receive training on the following:

- 1. 49 CFR 177.834 (1)(2,3,4,5), "Guidelines Loading & Unloading"
- 49 CFR 173.30, "Loading & Unloading of Transport Vehicle"
- 3. 49 CFR 177.816, "Driver Training"
- 4. 49 CFR 172.704, "Training for HAZMAT"
- 5. 49 CFR 177.834, "General Requirements"
- 6. Operations Procedures Manual:
  - a. Procedure No. 5.1, "Tank Trailer Unloading"
  - b. Procedures No. 5.2, "Shipment of Pressurized Portable Tank/Tank Trailers"
  - c. Procedure No. 5.14, "Tank Trailer Unloading with J100 Compressor & Product Pump"
  - d. Procedure No. 9.2, "Unloading Bulk Shipment"

units are used to unload different chemicals at the customer location. In order to properly maintain and operate this equipment, <u>Procedure No. 5.14</u>, <u>Tank Trailer Unloading With J 100 Compressor & Product Pumps</u>, found in the Operations Procedure Manual shall be used to train drivers.

# DRIVER'S TRAINING MANUAL

ISSUED: 05/01/00 APPROVED BY: David Garner

REVISED:

CONTACT: Fred Nichols

Cargo Tank Attendance

Section: 5.10

**Delivery To Customer** 

Each person loading or unloading a tank trailer (cargo tank) must know and obey the rules of 49 CFR, Part 177.834.

- 1. Loading A cargo tank must be attended by a qualified person at all items when it is being loaded. The person who is responsible for loading the cargo tank is also responsible for ensuring that it is so attended.
- 2. Unloading A motor carrier who transports hazardous materials by a cargo tank must ensure that the cargo tank is attended by a qualified person at all times during unloading. However, the carrier's obligation to ensure attendance during unloading ceases when:
  - a. The carrier's obligation for transporting the material is fulfilled.
  - b. The cargo tank has been placed upon the consignees' premises.
  - c. The motor power has been removed from the cargo tank and removed from the premises.

A person "attends" the loading or unloading of a cargo tank if, throughout the process, he/she is awake and has unobstructed view of the cargo tank, and is within 7.62 meters (25 feet) of the cargo tank.

A person is "qualified" if he/she has been made aware of the nature of the hazardous material which is to be loaded or unloaded, he/she has been instructed on the procedures to be followed in emergencies, he/she is authorized to move the cargo tank, and he/she has the means to do so.

A delivery hose, when attached to the cargo tank, is considered a part of the vehicle.

Driver who is going to pull a cargo tank trailer must receive training on the cargo tank attendance requirement from 49 CFR, part 177.834. Their training must take place before he is allowed to pull a cargo tank trailer.



#### SAFETY DATA SHEET

#### 1. Identification

Product identifier

**SODIUM HYPOCHLORITE 12.5%** 

Other means of identification

None.

Recommended use

ALL PROPER AND LEGAL PURPOSES

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Address

Company name

Brenntag Mid-South, Inc. 1405 Highway 136, West

Henderson, KY 42420

Telephone

270-830-1222

E-mail

Not available.

Emergency phone number

800-424-9300

CHEMTREC

#### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

Not classified.

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes severe skin burns and eye damage. Causes serious eye damage.

Precautionary statement

Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor. Wash contaminated clothing before reuse.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
HYPOCHLOROUS ACID, S SALT (1:1)	ODIUM	7681-52-9	12.5
SODIUM HYDROXIDE (NA(OH))		1310-73-2	0.7
Other components below reportable levels			86.8

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and delayed

Indication of in

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical
Special protective equipment

and precautions for firefighters

equipment/instructions
Specific methods

General fire hazards

Foam, Powder, Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions** 

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA 1	Table Z-1	Limits for Air	Contaminants :	(29 CFR	1910,1000)
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Components	Туре	Value	
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	PEL	2 mg/m3	
US. ACGIH Threshold Limit Value:	s		
Components	Type	Value	
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	
SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. Workplace Environmental Exp	oosure Level (WEEL) Guides		
Components	Туре	Value	
HYPOCHLOROUS ACID,	STEL	2 mg/m3	-

SODIUM SALT (1:1) (CAS 7681-52-9) Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye

wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state

Liquid.

Form

Liquid.

Color

CLEAR PALE YELLOW

Odor

CHLORINE

Odor threshold

Not available.

рΗ

11.5 - 13.5

Melting point/freezing point

-3 °F (-19.44 °C)

Initial boiling point and boiling range

230.55 °F (110.3 °C) estimated

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits Flammability limit - lower

(%)

Not available.

Material name: SODIUM HYPOCHLORITE 12.5%

Flammability limit - upper

Not available.

Explosive limit - lower (%)

Not available. Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density Relative density Not available. Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

**Viscosity** 

Not available.

Other information

Density

10.00 lbs/gal

**Explosive properties** 

Not explosive. Not oxidizing.

**Oxidizing properties** Percent volatile

86.8 % estimated

Specific gravity

1.2

#### 10. Stability and reactivity

Reactivity

Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

Hazardous polymerization does not occur.

reactions

Conditions to avoid

Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials

Acids, Oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact

Causes severe skin burns. Causes serious eye damage.

Eye contact Ingestion

Causes digestive tract burns.

Symptoms related to the physical, chemical and

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

toxicological characteristics

**Acute toxicity** 

Not available.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Information on toxicological effects

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not available

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

**Species** 

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9)

Aquatic

Flsh

Components

LC50

Chinook salmon (Oncorhynchus

0.038 - 0.065 mg/l, 96 hours

**Test Results** 

tshawytscha)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

Aquatic

Crustacea

EC50

Water flea (Ceriodaphnia dubia)

34.59 - 47.13 mg/l, 48 hours

Fish

LC50

Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential Mobility in soil

No data available. No dala available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

**UN** number

UN1791

UN proper shipping name Transport hazard class(es) HYPOCHLORITE SOLUTIONS

8 Class

Subsidiary risk Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**ERG** number

154

Ш

DOT information on packaging may be different from that listed.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### IATA

**UN** number

1791

UN proper shipping name

HYPOCHLORITE SOLUTIONS

Transport hazard class(es)

Class

8

Subsidiary risk

Ш

Packing group **Environmental hazards** 

No.

**ERG Code** 

154

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

#### DOT



#### IATA



General information

IMDG Regulated Marine Pollulant.

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS

Listed.

7681-52-9)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** 

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69602.3, subd.

(a))

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Massachusetts RTK - Substance List

HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. New Jersey Worker and Community Right-to-Know Act

HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Pennsylvania Worker and Community Right-to-Know Law

HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

US. Rhode Island RTK

HYPOCHLOROUS ACID, SODIUM SALT (1:1) (CAS 7681-52-9)

SODIUM HYDROXIDE (NA(OH)) (CAS 1310-73-2)

#### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

#### 16. Other information, including date of preparation or last revision

Issue date

06-06-2015

Revision date

01-19-2016

Version#

25 Health: 3

HMIS® ratings

Flammability: 0

Physical hazard: 0

NFPA ratings

Health: 3 Flammability: 0 Instability: 0

Disclaimer

While Brenntag believes the information contained herein to be accurate, Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with applicable federal, state, and local law. This SDS shall not in any way limit or preclude the operation and effect of any of the provisions of Brenntag's terms and conditions of sale.

Material name: SODIUM HYPOCHLORITE 12.5%

sps us 8 / 8

# TETRA

#### SAFETY DATA SHEET

Issuing Date 15-Nov-2004

Revision Date 30-Jul-2014

**Revision Number 4** 

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**GHS** product identifler

**Product Name** 

Calcium Chloride Solid

Other means of identification

**Synonyms** 

Briners Grade, EXPRESS®, FCC Dry Food Grade Calcium Chloride, TETRA 94™,

**TETRA Flake** 

Recommended use of the chemical and restrictions on use

Recommended Use

For Diverse Applications

Uses advised against

No information available

Supplier's details

Manufacturer Address

TETRA Technologies, Inc. 24955 Interstate 45 North

The Woodlands, TX 77380

TEL: 281-367-1983 (Non-Emergency Number)

Emergency telephone number

**Emergency Telephone** 

Number

CHEMTREC: 1-800-424-9300 for US / 703-527-3887 outside US

#### 2. HAZARDS IDENTIFICATION

#### Classification

Acute Oral Toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 2

#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

Signal Word Hazard Statements - Harmful if swallowed - Causes serious eye irritalion Warning



Appearance White

Physical State Flake or pellet.

Odor Odorless

#### **Precautionary Statements**

#### Prevention

- · Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- · Wear eye/face protection.

#### **General Advice**

None

#### Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- · If eye irritation persists: Get medical advice/attention.

#### Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- · Rinse mouth.

#### Storage

None

#### Disposal

- Dispose of contents/container to an approved waste disposal plant.

#### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

#### Other Information

Wear hand protection

0% of the mixture consists of ingredient(s) of unknown toxicity.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Briners Grade, EXPRESS®, FCC Dry Food Grade Calcium Chloride, TETRA 94™, TETRA Flake

Chemical Name	CAS-No	Weight %
Calcium Chloride	10043-52-4	74-100
Water	7732-18-5	0-26
Sodium chloride	7647-14-5	< 3
Potassium Chloride	7447-40-7	<3
Magnesium chloride	7786-30-3	< 0.5

#### 4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Keep eye wide open while rinsing. Obtain medical attention if irritation persists.

Skin Contact Wash off immediately with soap and plenty of water. Get medical attention if irritation

develops and persists.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell Rinse

mouth.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsultable Extinguishing Media None

Specific Hazards Arising from the Chemical

Avoid generating dust, under certain conditions may cause respiratory irritation. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion Data** 

Sensitivity to Mechanical Impact

None

Sensitivity to Static Discharge

None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions Avoid contact with the skin and the eyes. Use personal protective equipment. Avoid dust

formation.

**Environmental Precautions** 

Environmental Precautions Prevent product from entering drains. Prevent entry into waterways, sewers, basements or

confined areas. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

Methods for Cleaning Up

Take up mechanically and collect in suitable container for disposal. Use personal protective

equipment.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Handling

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing dust. Avoid dust formation.

Minimize dust generation and accumulation.

### Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled

containers. Keep in a dry place.

Incompatible Products

Zinc, Bromine tri-fluoride, Methyl vinyl ether

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

### **Exposure Guldelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Chloride	ACGIH - (TLV-TWA) Guidelne for	OSHA (PEL-TWA) - Z-3 Mineral	-
10043-52-4	nuisance particulate (inhalable	Dusts, Inert or Nuisance dusts.	
	particulate): 10 mg/m <sup>3</sup>	(respirable fraction): 5 mg/m <sup>3</sup>	

### Appropriate engineering controls

**Engineering Measures** 

Provide local exhaust ventilations system. When there is a potential for exposure, an emergency eyewash and safety shower should be provided within the immediate work area.

## Individual protection measures, such as personal protective equipment

Eve/Face Protection

Wear safety glasses with non-flexible side shields or chemical goggles

Skin and Body Protection

Hands and Feet:

Wear appropriate protective non-leather protective gloves and boots. Chemical protective gloves and boots such as PVC, Neoprene, or Heavy Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction.

Body:

Respiratory Protection

Wear appropriate protective, impervious clothing.

A respirator is not indicated under normal operating conditions. Use of a NIOSH - approved

respirator (N95 or greater) should be based on the presence of nuisance dusts.

**Hygiene Measures** 

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before

re-use. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

**Physical State** 

Flake or pellet

Appearance.

White

Odor

Odorless

Odor Threshold

No information available

Revision Date 30-Jul-2014

Property	<u>Values</u>	Remarks / Method
pH	Not applicable	None known
Melting Point/Range	175-770 ℃ / <b>350-1420</b> ℉	Estimated value(s)
Boiling Point/Boiling Range	175-1930 °C / 350-3500 °F	Estimated value(s)
Flash Point	Not applicable	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	Not applicable	None known
Vapor Density	Not applicable	None known
Specific Gravity	(H2O=1) 2.15 @ 77 °F / 25 °C	None known
Water Solubility	40% @ 68°F (20°C) with evolution of	None known
	heat	
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	erNo data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	Not applicable	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	
Other information		

# 10. STABILITY AND REACTIVITY

Not applicable

## Reactivity

No data available.

VOC Content (%)

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

Can only take place at very high temperature producing chlorine gas.

# **Hazardous Polymerization**

Hazardous polymerization does not occur.

# Conditions to avoid

Dust formation.

# Incompatible materials

Zinc, Bromine tri-fluoride, Methyl vinyl ether

# Hazardous decomposition products

Chlorine gas.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** 

Iπhalation May cause irritation of respiratory tract.

Eye Contact Irritating to eyes.

Skin Contact May cause irritation.

Ingestion Harmful if swallowed.

### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Chloride	= 1000 mg/kg (Rat)	= 2630 mg/kg (Ral)	<u> </u>
Potassium Chloride	= 2600 mg/kg (Rat)	<u>-</u>	-
Sodium chloride	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m³ (Ral) 1 h

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause irritation to the respiratory system.

# Delayed and immediate effects and also chronic effects from short and long term exposure

Eye damage/irritation Irritating to eyes.
Sensitization No information available.
Mutagenic Effects No information available.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Chronic Toxicity
Aspiration Hazard
No information available.
No information available.
Avoid repeated exposure.
No information available.

Numerical measures of toxicity - Product

Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 979 mg/kg; Acute toxicity estimate
LD50 Dermal 2630 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Wat <b>er</b> Flea)
Calcium Chloride 10043-52-4		LC50 96 h: = 10650 mg/L static (Lepomis macrochirus)		LC50 48 h: = 2400 mg/L (Daphnia magna)
Potassium Chloride 7447-40-7		LC50 96 h: 750-1020 mg/L static (Pimephales promelas)		EC50 48 h; = 825 mg/L (Daphnia magna) EC50 48 h; = 83 mg/L Statio
		LC50 <b>96</b> h: = 1060 mg/L static (Lepomis macrochirus)		(Daphnia magna)

Sodium chloride	LC50 96 h: 5560 - 6080	EC50 48 h: = 1000 mg/L
7647-14-5	mg/L flow-through (Lepomis	(Daphnia magna) EC50 48
i	macrochirus) LC50 96 h: =	h: 340.7 - 469.2 mg/L Static
1	12946 mg/L static (Lepomis	(Daphnia magna)
	macrochirus) LC50 96 h:	
	6020 - 7070 mg/L static	
	(Pimephales promelas) LC50	
	96 h; = 7050 mg/L	
	semi-static (Pimephales	
	promelas) LC50 96 h: 6420	
	- 6700 mg/L static	
	(Pimephales promelas) LC50	
	96 h: 4747 - <b>7824 mg/L</b>	
	flow-through (Oncorhynchus	
1	mykiss)	

Persistence and Degradability

Product is not biodegradable.

Bloaccumulation

Does not bioaccumulate.

Other Adverse Effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

## 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** DSL

Complies Complies

<u>Legend</u>
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## **U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories Acute Health Hazard Yes Chronic Health Hazard No Fire Hazard No Sudden Release of Pressure Hazard No Reactive Hazard No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WEEL HAT THE		16, OTHERNN	(O) 31V	ATION	
NFPA	Health Hazard 1	Flammability	0	Instability 1	Physical and Chemical Hazards
<u>HMIS</u>	Health Hazard 1	Flammability	0	Physical Hazard 1	Personal Protection X
Prepared By	Product	Stewardship			

23 British American Blvd. Latham, NY 12110 1-800-572-6501 15-Nov-2004

**Issuing Date Revision Date** 30-Jul-2014 **Revision Note** Update to Format.

General Disclaimer
The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet** 



Page 1 of 4

PRODUCT TRADE NAME	CelaPerl		110				
MANUFACTURER	EP Minera	is, LLC., 9875 Gateway Dr., Suit	le 1000, Reno, NV 89521	DO 70	5578		
TELEPHONE NO.	(775) 824 7	600 (Monday – Friday 8:00 am	PST - 5:00 pm PST)	P.C. 20	00010		
CHEMICAL NAME	Sodium Po	tassium Aluminum Silicate		Celap	ir l		
CHEMICAL FAMILY	Silicate	****	3	_	<b>3</b> , <b>3</b> 0)		
MATERIAL USE	Filler aid, F	unctional additive		7	1.2		
DATE OF PREPARATION	April 5, 200	7	_	@ 100	ستعل		
SECTION 2: HAZARDS	IDENTIF	ICATION	2	100 m			
EMERGENCY OVERVIEW: Appearance//Color/Odor	A white to o	off-white, low density powder. Ti	nere is no distinctive odor.	Colaps Foolips			
OSHA REGULATORY STATUS	This materi	al is not considered hazardous b	y the OSHA Hazard Commun	nication Standard (290	FR 1910.1200)		
POTENTIAL HEALTH EFFECTS	See below	and Section 11 for additional info	ormalion				
Likely Routes of Exposure	See below	-					
EYE	May cause Irritation (tear formation and redness) if dust gets in eyes.						
SKIN	Not absorbed by the skin, but may cause dryness if prolonged exposure.						
INGESTION	Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throand stomach.						
INHALATION	Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided.						
CHRONIC EFFECTS	Perlite is a naturally occurring volcanic glass consisting of fused sodium – potassium – aluminum silicate. Tes conducted on Celatom Perlite have not identified crystalline silica as being present above the detection limit (0.05%).  Although there are no published reports of adverse health effects from exposure to perlite dust, dust levels ship be maintained below the OSHA Permissible Exposure Limit for perlite and respirators used when airborne dust				etection limit dust levels shou		
CONDITIONS AGGRAVATED BY EXPOSURE	Pre-existing	diseases of the upper respirato	Pre-existing diseases of the upper respiratory tract and lung such as dronchilis, emphysema, and asthma.				
				nd asthma.			
ENVIRONMENTAL EFFECTS	There are n	o significant environmental effec	ets.		nd asthma.		
					nd asthma.		
	ION / IN			EINECS	R Factors		
SECTION 3: COMPOSIT	ION / IN	FORMATION ON INC	GREDIENTS	EINECS Not listed			
SECTION 3: COMPOSIT  INGREDIENT IDENTIFICATION  Perlite	TION / IN	APPROXIMATE CONCENTRATION (%)	C.A.S. NUMBERS		R Factors		
SECTION 3: COMPOSIT  INGREDIENT IDENTIFICATION  Perlite  SECTION 4: FIRST AID	TION / IN	APPROXIMATE CONCENTRATION (%)	C.A.S. NUMBERS 93763-70-3	NoI listed	R Factors R48/20		
SECTION 3: COMPOSIT	MEASUI	APPROXIMATE CONCENTRATION (%) 100% RES	GREDIENTS  C.A.S. NUMBERS  93763-70-3  r or eye rinse solution. Const	NoI listed	R Factors R48/20		
SECTION 3: COMPOSITE INGREDIENT IDENTIFICATION Perlite  SECTION 4: FIRST AID	MEASUI Flush eyes Use moistur	APPROXIMATE CONCENTRATION (%)  100%  RES  with generous quantities of wate	GREDIENTS  C.A.S. NUMBERS  93763-70-3  r or eye rinse solution. Const	NoI listed	R Factors R48/20		
SECTION 3: COMPOSIT  INGREDIENT IDENTIFICATION  Perlite  SECTION 4: FIRST AID  EYE  SKIN	MEASUI Flush eyes Use moistur Drink gener	APPROXIMATE CONCENTRATION (%)  100%  RES  with generous quantities of water renewing lotions if dryness occ	GREDIENTS  C.A.S. NUMBERS  93763-70-3  r or eye rinse solution. Const	NoI listed	R Factors R48/20		
SECTION 3: COMPOSIT  INGREDIENT IDENTIFICATION  Perlite  SECTION 4: FIRST AID  EYE  SKIN  NGESTION	MEASUI Flush eyes Use moistur Drink gener	APPROXIMATE CONCENTRATION (%)  100%  RES  with generous quantities of water renewing lotions if dryness occurs amounts of water to reduce fresh air. Blow nose to evacuate	GREDIENTS  C.A.S. NUMBERS  93763-70-3  r or eye rinse solution. Const	NoI listed	R Factors R48/20		

MATERIAL NAME	CelaPerl				Page 2 of 4			
SECTION 5: FIRE FIGHT	TING M	EASURES						
FLAMMABILITY	This mat	erial is not flammable.	•	_				
EXTINGUISHING MEDIA	Not appli	cable, the material is not f	lammable.					
FIRE-FIGHTING PROCEDURES	Not appli	cable, the material is not f	lammable.					
PROTECTIVE EQUIPMENT	Not appli	lot applicable, the material is not flammable						
HAZARDOUS COMBUSTION PRODUCTS	Not appli	lot applicable, the material does not combust.						
SPECIFIC PHYSICAL AND CHEMICAL HAZARDS	Not appli	Not applicable, the material is not flammable.						
EXPLOSION DATA	Not appli	cable, the material is not e	explosive.					
SECTION 6: ACCIDENT	AL REI	EASE MEASUR	ES					
PERSONAL PRECAUTIONS	If dust is	present, use respîralor fitt	ed with particulate	filter as specified in Section 8.	Protect eyes with goggles.			
ENVIRONMENTAL PRECAUTIONS	This mate	erial is not a significant en	vironmental concer	n				
CONTAINMENT AND CLEANUP	Vacuum	clean spillage, wet sweep	or wash away. Av	oid creating dust.				
SECTION 7: HANDLING	AND S	TORAGE						
HANDLING	Minimize	dust generation. Avoid co	ontact with eyes. A	void breathing dust. Repair or d	dispose of broken bags.			
STORAGE		a dry place to maintain pac all label precautions and v		d product quality. Do not store	near hydrofluoric acid.			
SECTION 8: EXPOSURE	CONT	ROLS / PERSON	NAL PROTE	CTION				
EXPOSURE GUIDELINES:								
Component		OSHA PEL	ACGIH TLV	MSHA PEL	NIOSH REL			
Diatomaceous Earth, Natural (kieselgt	uhr)	15 mg/m <sup>3</sup> total dust for products containing < 1% quartz	10 mg/m³ lotal dust	5 mg/m³	6 mg/m³			
ENGINEERING CONTROLS		l Control dust within recommens for design of ventilation		I Refer to ACGIH publication "Ind	ustrial Ventilation" or simila			
PERSONAL PROTECTIVE	See belo							
EYE / FACE	Goggles	to protect from dust	_					
SKIN	No specia	al equipment is needed.						
RESPIRATORY	Respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present. If the dust concentration is less than ten (10) times the Permissible Exposure Limit (PEL) use a quarter or half-mask respirator with a N95 dust filter or a single use dust mask rated N95. If dust concentration is greater than ten (10) times and less than fifty (50) times the PEL, a full-face piece respirator fitted with replaceable N95 filters is recommended. If dust concentration is greater than fifty (50) and less than two hundred (200) times the PEL use a power air-purifying (positive pressure) respirator with a replaceable N95 filter. If dust concentration is greater than two hundred (200) times the PEL use a type C, supplied air respirator (continuous flow, positive							
	pressure)	pressure), with full face piece, hood or helmet.  Avoid breathing dust. Avoid contact with eyes. Wash hands after handling and before eating or drinking.						
GENERAL HYGIENE			t with eyes. Wash	hands after handling and befo	re eating or drinking.			

MATERIAL NAME	CelaPerl			Page 3 of 4			
				rage 3 01 4			
SECTION 9: PHYSICAL	AND CHEMICAL PRO	PERTIES					
APPEARANCE, COLOR	White to off white powder	ODOR	Odor	less			
PHYSICAL STATE	Solld	pH (10% SUSPENSION)	7				
VAPOR PRESSURE	Not applicable	Not applicable VAPOR DENSITY Not applicable					
BOILING POINT	Not applicable	MELTING POINT	> 80	0°C			
FLASH POINT	Not applicable	FLAMMABILITY	Not app	licable			
FLAMMABILITY LIMITS	Not applicable	AUTOIGNITION TEMPERATURE	Not app	licable			
DECOMPOSITION TEMPERATURE	> 800°C	SPEC. GRAVITY / REL. DENSITY	2,	3			
EVAPORATION RATE	Not applicable	COEFF WATER / OIL	Not app	licable			
ODOR THRESHOLD	Not applicable	SOLUBILITY - WATER	<1	%			
PARTITION COEFFICIENT	Not applicable						
SECTION 10: STABILIT	Y AND REACTIVITY						
CHEMICAL STABILITY	Material is stable.						
PHYSICAL HAZARDS	Material is not reactive.						
CONDITIONS TO AVOID	Not applicable		_				
INCOMPATIBLE MATERIALS	Hydrofluoric acid. Products cont	aining silica may react violently with hydrof	uoric acid.	<del>-</del>			
HAZARDOUS DECOMPOSITION PRODUCTS	Not applicable			-			
SECTION 11: TOXICOL	OGICAL INFORMATIO	N		_			
CHRONIC EFFECTS / CARCINOGENICITY	concentrations of perlite dust or a	adverse health effects from exposure to pe any other particulates for prolonged periods ray diffraction have not identified any phas	of time may cause	lung damage.			
ROUTE OF EXPOSURE	Inhalation (chronic)		<del></del>				
SYMPTOMS	Not available						
LD50	Not available						
MMEDIATE AND DELAYED EFFECTS	No immediate effects. See CHR levels of dust in excess of OSHA	ONIC EFFECTS for potential long-term effort PEL and ACGIH TLV.	ects when prolonge	d exposure lo			
CORROSIVENESS, SENSITIZATION, IRRITANCY	Not applicable						
REPRODUCTIVE TOXICITY	Not available						
TERATOGENICITY, MUTAGENICITY	Not available						
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	inhaled smoke from tobacco prod	ducts (chronic).					
SECTION 12: ECOLOG	CAL INFORMATION						
CHARACTERISTICS	Non-biodegradable, inert, with litt	le potential for bioaccumulation.					
POSSIBLE EFFECTS	These products have no demons	trated toxicity in regards to aquatic or terre	strial life.				

MATERIAL NAME	CelaPerl	Page 4 of 4				
SECTION 13: DISPO	SAL CONSIDERATIONS					
WASTE DISPOSAL	If this material as supplied becomes a waste, use solid waste disposal common to landfill type operations or in sturry to sumps. Not considered a hazardous waste under RCRA (40CFR Part 261).					
PACKAGING DISPOSAL	Dispose of in accordance with applicable laws and regulations, typically solid waste dispose operations.	al common to landfill type				
SECTION 14: TRAN	SPORT INFORMATION					
BASIC SHIPPING INFORMATI	ON DOT shipping classification 55 (no restrictions). Technical name is "Perlite".					
ADDITIONAL INFORMATION	No special requirements or placarding necessary.					
SECTION 15: REGU	LATORY INFORMATION					
U.S. FEDERAL:						
OSHA	Perlite Is not classified as a toxic and hazardous substance.					
TSCA	Not listed.					
CERCLA	Perlite is not classified as a hazardous substance under regulations of the Comprehensive Compensation and Liability Act (CERCLA), 40 CFR 302.	Environmental Response				
SARA TITLE III	Not listed.					
NTP	Not listed.					
INTERNATIONAL:						
IARC	Not classified.					
WHMIS Classification	These products are not regulated by WHMIS					
WHMIS Ingredient Disclosure List	Crystalline silica Included for disclosure at 1% or greater, does not apply for these products					
EEC Label (Risk/Safety Phrases)	R48/20, S22, S38	***				
SECTION 16: OTHE	RINFORMATION					
	* Health					
	4-Extreme 3-High 1 0 2-Moderate 1-Slight 0 Flammability					
	3-Filgh 2-Moderate 1-Slight 0-Insignificant 0 Reactivity					
	E Protective Equipment					
ORIGINAL ISSUE DATE	May 26, 1993					
REVISION DATE	April 5, 2007					
REVISION NO.	5	<u> </u>				

Disclaimer: As of the date of the preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. No warranty, representation or guaranty of any kind, express or implied, is hereby provided or intended with respect to the completeness of the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by the purchase, resale, use or exposure to our product. Customer users of silica must comply with all applicable health and safety laws, regulations and orders, including OSHA Hazardous Communication Standard.



# SAFETY DATA SHEET

### 1. Identification

Product identifier HYDROCHLORIC ACID 20 BE

Other means of identification

None.

Recommended use

ALL PROPER AND LEGAL PURPOSES

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Address

Company name

Brenntag Mid-South, Inc. 1405 Highway 136, West

Henderson, KY 42420

Telephone

270-830-1222

E-mail

Not available.

**Emergency phone number** 

800-424-9300

CHEMTREC

## 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Calegory 1A

Serious eye damage/eye irritation

Category 1

Environmental hazards

OSHA defined hazards

Not classified Not classified

Label elements



Signal word

Danger

Hazard statement

Causes severe skin burns and eye damage. Causes serious eye damage.

Precautionary statement

Prevention

Do not breathe mist or vapor. Wash thoroughly after handling, Wear protective gloves/protective

clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth, Do NOT induce vomiting, If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower, If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, Immediately call a poison

center/doctor. Wash contaminated clothing before reuse.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
HYDROCHLORIC ACID		7647-01-0	31.5
Other components below rea	portable levels	<del></del>	68.5

<sup>\*</sup>Designates that a specific chemical identify and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.

Provide general supportive measures and treal symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

211	AHZO	Table	7-11 im	ite for	Air	Contaminants	129 CED	1910 1000)
U .S.	COUR	Idule	4-1 LIII	ILS IUI	AII	Contaminants	123 CFR	19 10. 10001

Components	Туре `	, Value	
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
US. ACGIH Threshold Limit Valu	es		
Components	Type	Value	
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	2 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
HYDROCHLORIC ACID (CAS 7647-01-0)	Ceiling	7 mg/m3	
,		5 ppm	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## Physical and chemical properties

**Appearance** 

Physical state

Liquid.

Form

Liquid.

Color

COLORLESS TO SLIGHTLY YELLOW

Odor

Pungent

Odor threshold

Not available.

Not available.

Melting point/freezing point Initial boiling point and boiling -63 °F (-52.78 °C)

107.08 °F (41.71 °C) estimated

range

Flash point

Not available.

**Evaporation rate** 

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%)

Not available.

Not available. Explosive limit - upper (%)

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available

Solubility(ies)

Not available. Solubility (water)

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Decomposition temperature Not available.

**Viscosity** Not available

Other information

Density 9.67 lbs/gal Explosive properties Not explosive.

Oxidizing properties Not oxidizing. Percent volatile 68.5 % estimated

Specific gravity 1.16

# 10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions. Hazardous polymerization does not occur.

Possibility of hazardous reactions

Conditions to avoid

Contact with incompatible materials.

Incompatible materials Amines.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. Eye contact Causes serious eye damage. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result. Coughing.

Causes digestive tract burns.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

HYDROCHLORIC ACID (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Material name: HYDROCHLORIC ACID 20 BE

# US. National Toxicology Program (NTP) Report on Carcinogens

No! available:

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classifie

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Chronic effects

Prolonged inhalation may be harmful.

Not an aspiration hazard.

# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

Components

Species

**Test Results** 

HYDROCHLORIC ACID (CAS 7647-01-0)

Aquatic

Fish

LC50

Western mosquitofish (Gambusia affinis) 282 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

**UN number** 

UN1789

UN proper shipping name Transport hazard class(es) HYDROCHLORIC ACID

Class

8

Subsidiary risk

-

Packing group

[]

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ERG number

157

DOT information on packaging may be different from that listed.



# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

HYDROCHLORIC ACID (CAS 7647-01-0)

Listed.

SARA 304 Emergency release notification

HYDROCHLORIC ACID (CAS 7647-01-0)

5000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name

CAS number

Reportable

**Threshold** 

planning quantity

**Threshold** 

lower value

planning quantity,

**Threshold** 

planning quantity, upper value

HYDROCHLORIC

7647-01-0

Yes

5000

quantity

500 lbs

ACID

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	
HYDROCHLORIC ACID	

CAS number 7647-01-0

% by wt.

31.5

## Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

HYDROCHLORIC ACID (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

HYDROCHLORIC ACID (CAS 7647-01-0)

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number** 

HYDROCHLORIC ACID (CAS 7647-01-0)

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

HYDROCHLORIC ACID (CAS 7647-01-0)

20 %WV

**DEA Exempt Chemical Mixtures Code Number** 

HYDROCHLORIC ACID (CAS 7647-01-0)

6545

### US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

HYDROCHLORIC ACID (CAS 7647-01-0)

### US. Massachusetts RTK - Substance List

HYDROCHLORIC ACID (CAS 7647-01-0)

## US. New Jersey Worker and Community Right-to-Know Act

HYDROCHLORIC ACID (CAS 7647-01-0)

## US. Pennsylvania Worker and Community Right-to-Know Law

HYDROCHLORIC ACID (CAS 7647-01-0)

### US, Rhode Island RTK

HYDROCHLORIC ACID (CAS 7647-01-0)

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

06-25-2015

Revision date

01-14-2016

Version#

18

HMIS® ratings

Health: 3

Flammability: 0

Physical hazard: 0

NFPA ratings

Health: 3

Flammability: 0

Instability: 1

Disclaimer

While Brenntag believes the information contained herein to be accurate. Brenntag makes no representation or warranty, express or implied, regarding, and assumes no liability for, the accuracy or completeness of the information. The Buyer assumes all responsibility for handling, using and/or reselling the Product in accordance with applicable federal, state, and local law. This SDS shall not in any way limit or preclude the operation and effect of any of the provisions of

Brennlag's terms and conditions of sale.

Revision information

Hazard(s) identification: Response