



LEXINGTON

## Lexington-Fayette Urban County Government

Lexington, Kentucky  
Horse Capital of the World

Division of Procurement

Date of Issue: 03/05/2025

### INVITATION TO BID #29-2025 Activated Carbon Replacements in Odor Control Units

Bid Opening Date: 03/21/2025

Bid Opening Time: 2:00 PM

Address: All bids must be submitted on line at <https://lexingtonky.ionwave.net/>

Type of Bid: Price Contract

Pre Bid Meeting: N/A

Pre Bid Time: N/A

Address: N/A

Sealed bids will ONLY be received online at <https://lexingtonky.ionwave.net/> until **2:00 PM**, prevailing local time on 03/21/2025. Bids must be submitted/uploaded by the above-mentioned date and time.

Bids are to include all shipping, handling and associated fees to the point of delivery (unless otherwise specified in the bid documents below) located at: Lexington, KY

<input checked="" type="checkbox"/> Bid Specifications Met <input type="checkbox"/> Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i>	<b>Check One:</b>	<b>Proposed Delivery:</b> 25 days after acceptance of bid.
<b>Procurement Card Usage</b> —The Lexington-Fayette Urban County Government may be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

To expedite award, the forms in this document should be completed and uploaded with your bid.

Submitted by: PureAir Filtration

*Firm Name*

6700 Dawson Blvd

*Address*

Norcross, GA 30093

*City, State & Zip*

**Bid must be signed:**

*Anthony Yamini*

**Signature of Authorized Company Representative – Title**

Anthony Yamini

**Representative's Name (Typed or printed)**

678-935-1431 ext. 206

678-935-0648

**Area Code - Phone – Extension**

**Fax #**

ayamini@pureairfiltration.com

**E-Mail Address**



*The Affidavit in this bid must be completed before your firm can be considered for award of this contract.*

**AFFIDAVIT**

Comes the Affiant, PureAir Filtration, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Anthony Yamini and he/she is the individual submitting the bid or is the authorized representative of PureAir Filtration, 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 Procurement 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.

Anthony Yamini

STATE OF

Georgia

COUNTY OF

Gwinnett

The foregoing instrument was subscribed, sworn to and acknowledged before me  
by Anthony Yamini on this the 19<sup>th</sup> day  
of March, 2025

My Commission expires:

November 15, 2027



Sarah Desjardins  
NOTARY PUBLIC, STATE AT LARGE

***Please 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 [www.Energystar.gov](http://www.Energystar.gov)). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

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 friendly 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 [www.Greenseal.org](http://www.Greenseal.org) 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 waiver 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. Bid Conditions**

- A. No bid 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 Procurement may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Procurement.
- 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 any and all bids for either fiscal

or technical reasons, and to award each part of the bid separately, all parts to one vendor or all parts to multiple vendors.

- 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 Procurement. 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 submitted in the Ion Wave online portal at <https://lexingtonky.ionwave.net/>
- K. Bidder 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 XX 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 failure 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 bid 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, religion, sex (including pregnancy, sexual orientation or gender identity), national origin, disability, age, genetic information, political affiliation, or veteran status, 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 special conditions 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 Procurement 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 Procurement or (2) submitting a written request for a meeting with the Director of Procurement 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 Procurement 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 Procurement 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 Procurement or (2) submitting a written request for a meeting with the Director of Procurement 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 Procurement shall in writing, affirm or withdraw the recommendation.

### **III. Procurement Contract Bid Conditions**

- A. The terms of this agreement shall be for 1 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 **3-1** year(s) renewals. 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 365 days of the Procurement Contract. After 365 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 year. 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. See bid specifications.
- 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 Procurement.



## EQUAL OPPORTUNITY AGREEMENT

### Standard Title VI Assurance

The Lexington Fayette-Urban County Government, (hereinafter referred to as the "Recipient") hereby agrees that as a condition to receiving any Federal financial assistance from the U.S. Department of Transportation, it will comply with Title VI of the Civil Rights Act of 1964, 78Stat.252, 42 U.S.C. 2000d-4 (hereinafter referred to as the "Act"), and all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, (49 CFR, Part 21) Nondiscrimination in Federally Assisted Program of the Department of Transportation – Effectuation of Title VI of the Civil Rights Act of 1964 (hereinafter referred to as the "Regulations") and other pertinent directives, no person in the United States shall, on the grounds of race, color, national origin, sex, age (over 40), religion, sexual orientation, gender identity, veteran status, or disability be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Recipient receives Federal financial assistance from the U.S. Department of Transportation, including the Federal Highway Administration, and hereby gives assurance that will promptly take any necessary measures to effectuate this agreement. This assurance is required by subsection 21.7(a) (1) of the Regulations.

### The Law

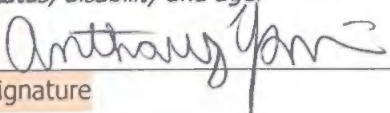
- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment 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.

### Bidders

*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

PureAir Filtration  
Name of Business



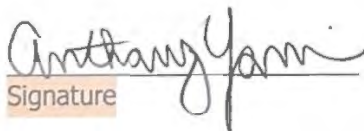
## GENERAL PROVISIONS OF BID CONTRACT

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:

1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good. All applicable state laws, ordinances and resolutions (including but not limited to Section 2-33 (Discrimination due to sexual orientation or gender identity) and Chapter 13 (Licenses and Regulations) of the Lexington-Fayette Urban County Government Code of Ordinances, and Resolution No. 484-17 (Minority, Women, and Veteran-Owned Businesses)) and the regulations of all authorities having jurisdiction over the project shall apply to the contract, and shall be deemed to be incorporated herein by reference.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda and IonWave Q&A, 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.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. 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.
11. 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.

13. 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. Price Discrepancy: When applicable, in case of price discrepancy, unit bid price written in words will prevail followed by unit price written in numbers then total amount bid per line item.
19. 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.
20. Contractor [or Vendor or Vendor's Employees] will not appropriate or make use of the Lexington-Fayette Urban County Government (LFUCG) name or any of its trade or service marks or property (including but not limited to any logo or seal), in any promotion, endorsement, advertisement, testimonial or similar use without the prior written consent of the government. If such consent is granted LFUCG reserves the unilateral right, in its sole discretion, to immediately terminate and revoke such use for any reason whatsoever. Contractor agrees that it shall cease and desist from any unauthorized use immediately upon being notified by LFUCG.
21. 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

03/19/2025  
Date



## WORKFORCE ANALYSIS FORM

Name of Organization: PureAir Filtration

Categories	Total	White (Not Hispanic or Latino)		Hispanic or Latino		Black or African- American (Not Hispanic or Latino)		Native Hawaiian and Other Pacific Islander (Not Hispanic or Latino)		Asian (Not Hispanic or Latino)		American Indian or Alaskan Native (not Hispanic or Latino)		Two or more races (Not Hispanic or Latino)		Total	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Administrators	9	5	2			1				1						7	2
Professionals	29	8	4	3	1	2	2	5	3					1		19	10
Superintendents	1	1														1	
Supervisors	2			1						1						2	
Foremen																	
Technicians	7	1		2	1	1	1						1			4	3
Protective Service																	
Para-Professionals																	
Office/Clerical	1				1												1
Skilled Craft																	
Service/Maintenance	3					3										3	
Total:	52															36	16

Prepared by: Olivia Tomlinson, Sales Associate Date: 03 / 19 / 2025  
 (Name and Title) Revised 2015-Dec-15

**DIRECTOR, DIVISION OF PROCUREMENT  
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT  
200 EAST MAIN STREET  
LEXINGTON, KENTUCKY 40507**

**NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE  
EQUAL EMPLOYMENT OPPORTUNITIES AND DBE CONTRACT PARTICIPATION**

The Lexington-Fayette Urban County Government has a Certified Minority and Women Business Enterprise seventeen percent (17%) minimum goal including minimum subgoals of five percent (5%) for Minority Business Enterprises (MBE) and a subgoal of twelve percent (12%) for Women Business Enterprises (WBE); a three (3%) minimum goal for Certified Veteran-Owned Small Businesses and/or Certified Service- Disabled Veteran Owned Businesses; and a goal of utilizing Disadvantaged Business Enterprises (DBE), where applicable, for government contracts.

For assistance in locating certified DBEs, MBEs, WBEs, VOSBs and/or VOSBs, contact Sherita Miller at 859/258-3320 or by writing the address listed below:

Sherita Miller, MPA, CPSD  
Minority Business Enterprise Liaison  
Division of Procurement  
Lexington-Fayette Urban County Government  
200 East Main Street  
Lexington, Kentucky 40507  
[smiller@lexingtonky.gov](mailto:smiller@lexingtonky.gov)  
859-258-3323





# LEXINGTON

## MINORITY BUSINESS ENTERPRISE PROGRAM

Sherita Miller, MPA, CPSD  
Minority Business Enterprise Liaison  
Division of Procurement  
Lexington-Fayette Urban County Government  
200 East Main Street  
Lexington, KY 40507  
[smiller@lexingtonky.gov](mailto:smiller@lexingtonky.gov)  
859-258-3323

**OUR MISSION:** The mission of the Minority Business Enterprise Program (MBEP) is to facilitate the full participation of minority and women owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long- term economic viability of Lexington-Fayette Urban County Government.

To that end the urban county council adopted and implemented Resolution 272-2024 – a Certified Minority and Women Business Enterprise seventeen percent (17%) minimum goal including minimum subgoals of five percent (5%) for Minority Business Enterprises (MBE) and a subgoal of twelve percent (12%) for Women Business Enterprises (WBE); a three (3%) minimum goal for Certified Veteran-Owned Small Businesses and/or Certified Service- Disabled Veteran Owned Businesses; and a goal of utilizing Disadvantaged Business Enterprises (DBE), where applicable, for government contracts.

The resolution states the following definitions shall be used for the purposes of reaching these goals:

***Certified Disadvantaged Business Enterprise (DBE)*** – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a person(s) who is socially and economically disadvantaged as define by 49 CFR subpart 26.

***Certified Minority Business Enterprise (MBE)*** – a business in which at least fifty-one percent (51%) is owned, managed and controlled by an ethnic minority (i.e. Black American, Asian American, Hispanic American, Native American)

***Certified Women Business Enterprise (WBE)*** – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a woman.

***Certified Veteran-Owned Small Business (VOSB)*** – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

***Certified Service -Disabled Veteran Owned Small Business (SDVOSB)*** – a business in which at least fifty-one percent (51%) is owned, managed and controlled by a disabled veteran who served on active duty with the U.S. Army, Air Force, Navy, Marines or Coast Guard.

The term “Certified” shall mean the business is appropriately certified, licensed, verified, or validated by an organization or entity recognized by the Division of Procurement as having the appropriate credentials to make a determination as to the status of the business.

The following certifications are recognized and accepted by the MBEP:

Kentucky Transportation Cabinet (KYTC), Disadvantaged Business Enterprise (DBE)  
Kentucky Minority and Women Business Enterprise (MWBE)  
Women's Business Enterprise National Council (WBENC)  
National Women Business Owners Corporation (NWBOC)  
National Minority Supplier Development Council (NMSDC)  
Tri-State Minority Supplier Development Council (TSMSSDC)  
U.S. Small Business Administration Veteran Small Business Certification (VetCert)  
Kentucky Service- Disabled Veteran Owned Small Business (SDVOSB)

To comply with Resolution 272-2024, prime contractors, minority and women business enterprises, veteran owned small businesses, and service-disabled veteran owned small businesses must complete monthly contract compliance audits in the Diverse Business Management Compliance system, <https://lexingtonky.diversitycompliance.com/>

A list of organizations that certify and/or maintain lists of certified businesses (i.e. DBE, MBE, WBE, VOSB and/or SDVOSB) is available upon request by emailing, Sherita Miller, [smiller@lexingtonky.gov](mailto:smiller@lexingtonky.gov).





# LEXINGTON

## LFUCG MWDBE PARTICIPATION FORM Bid/RFP/Quote Reference # \_\_\_\_\_ 29-2025

The MWDBE and/or veteran subcontractors listed have agreed to participate on this Bid/RFP/Quote. If any substitution is made or the total value of the work is changed prior to or after the job is in progress, it is understood that those substitutions must be submitted to the Division of Procurement for approval immediately. **Failure to submit a completed form may cause rejection of the bid.**

MWBE Company, Name, Address, Phone, Email	DBE/MBE WBE/VOSB/SDVOSB	Work to be Performed	Total Dollar Value of the Work	% Value of Total Contract
1.				
2.	No Subcontracting work will be needed for this opportunity; PureAir Filtration is a WBE and WOSB certified business			
3.				
4.				

The undersigned company representative submits the above list of MDWBE and veteran firms to be used in accomplishing the work contained in this Bid/RFP/Quote. Any misrepresentation may result in the termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

PureAir Filtration  
\_\_\_\_\_  
**Company**

03/19/2025  
\_\_\_\_\_  
**Date**

Olivia Tomlinson  
\_\_\_\_\_  
**Company Representative**

Sales Associate  
\_\_\_\_\_  
**Title**



## LFUCG MWDBE SUBSTITUTION FORM

Bid/RFP/Quote Reference # 29-2025

The substituted MWDBE and/or veteran subcontractors listed below have agreed to participate on this Bid/RFP/Quote. These substitutions were made prior to or after the job was in progress. These substitutions were made for reasons stated below and are now being submitted to the Division of Procurement for approval. By the authorized signature of a representative of our company, we understand that this information will be entered into our file for this project. **Note: Form required if a subcontractor is being substituted on a contract.**

SUBSTITUTED DBE/MBE/WBE/VOSB Company Name, Address, Phone, Email	DBE/MBE/WBE/VOSB/SDVOSB Formally Contracted/ Name, Address, Phone, Email	Work to Be Performed	Reason for the Substitution	Total Dollar Value of the Work	% Value of Total Contract
1.					
2.	No Subcontracting work will be needed for this opportunity; PureAir Filtration is a WBE and WOSB certified business				
3.					
4.					

The undersigned acknowledges that any misrepresentation may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and false claims.

PureAir Filtration  
\_\_\_\_\_  
**Company**

03/19/2025  
\_\_\_\_\_  
**Date**

Olivia Tomlinson  
\_\_\_\_\_  
**Company Representative**

Sales Associate  
\_\_\_\_\_  
**Title**



## DOCUMENTATION REQUIRED FOR GOOD FAITH EFFORTS AND OUTREACH PLANS

As affirmed in Resolution Number 272-2024, the Urban County Council has adopted an annual aspirational goal of utilizing at least seventeen percent (17%) of public funds spend from certain discretionary agreements with certified Minority Business Enterprises (MBEs) and certified Woman Business Enterprises (WBEs); utilizing at least three percent (3%) of public funds from certain discretionary agreements with Certified Veteran-Owned Small Business and Certified Service-Disabled Veteran-Owned Small Businesses (VOSBs); and utilizing Disadvantaged Business Enterprises (DBEs) where applicable. Bidders should make every effort to achieve these goals.

Therefore, as an element of the responsiveness of the bid, all Bidders are required to submit documentation of their good faith and outreach efforts to ensure all businesses, including small and disadvantaged businesses such as minority-, woman-, and veteran-owned businesses, have an equal opportunity to compete for and participate in the performance of any subcontracts resulting from this procurement. Examples of good faith and outreach efforts that satisfy this requirement to encourage the participation of, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs include:

1. Advertised opportunities to participate in the contract in at least two (2) publications of general circulation media; trade and professional association publications; small and minority business or trade publications; and publications or trades targeting minority, women, and disadvantaged businesses not less than fifteen (15) days prior to the deadline for submission of bids to allow, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to participate.
2. Attended LFUCG Procurement Economic Inclusion Outreach event(s) within the past year to meet new small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to partner with on LFUCG contracts and procurements.
3. Attended pre-bid/pre-proposal meetings that were scheduled by LFUCG to inform small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs of subcontracting opportunities.
4. Sponsored Economic Inclusion event to provide networking opportunities for prime contractors and small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs.
5. Requested a list of certified small, DBE, MBE, WBE, VOSB and/or SDVOSB subcontractors or suppliers from LFUCG and showed evidence of contacting the companies on the list(s).
6. Contacted organizations that work with small, DBE, MBE, WBE, and VOSB companies for assistance in finding certified DBEs, MBEs, WBEs, VOSB and/or SDVOSBs to work on this project. Those contacted and their responses must be a part of the bidder's outreach efforts documentation.
7. Sent written notices, by certified mail, email, or facsimile, to qualified, certified small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs soliciting their participation in the contract not less than seven (7) days prior to the deadline for submission of bids to allow them to participate effectively.
8. Followed up initial solicitations by contacting small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs via tailored communications to determine their level of interest.



9. Provided the interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs with adequate and timely information about the plans, specifications, and requirements of the contract.
10. Selected portions of the work to be performed by small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs in order to increase the likelihood of subcontracting participation. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate small, DBE, MBE, WBE, VOSB and/or SDVOSB participation, even when the prime contractor may otherwise perform these work items with its own workforce.
11. Negotiated in good faith with interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection must be so noted in writing with a description as to why an agreement could not be reached.
12. Included documentation of quotations received from interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs that were not used due to uncompetitive pricing or were rejected as unacceptable and/or copies of responses from firms indicating that they would not be submitting a bid.
  - a. Bidder has to submit sound reasons why the quotations were considered unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered a sound reason for rejecting a small business', DBE's MBE's, WBE's, VOSB's and/or SDVOSB's quote. Nothing in this provision shall be construed to require the bidder to accept unreasonable quotes in order to satisfy the participation goals.
13. Made an effort to offer assistance to or refer interested small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs to obtain the necessary equipment, supplies, materials, insurance and/or bonding to satisfy the work requirements of the bid proposal.
14. Made efforts to expand the search for small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs beyond the usual geographic boundaries.
15. Other – any other evidence that the bidder submits that may demonstrate that the bidder has made reasonable efforts to include small, DBE, MBE, WBE, VOSB and/or SDVOSB participation.

Bidder must document, with specificity, each of the efforts it made to include small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs as subcontractors in the procurement, including the date on which each effort was made, the medium through which each effort was made, and the outcome of each effort.

**Note: Failure to submit the documentation requested in this section may be cause for rejection of bid. Bidders may include any other documentation deemed relevant to this requirement which is subject to review by the MBE Liaison. Documentation of Good Faith and Outreach Efforts must be submitted with the Bid, regardless of the proposed level of small, DBE, MBE, WBE, VOSB and/or SDVOSB participation in the procurement. If the Good Faith and Outreach Effort documentation is not submitted with the bid response, the bid may be rejected.**

#### OUTREACH EFFORTS EVALUATION

Outreach efforts demonstrated by the bidder or respondent will be evaluated on a pass/fail basis.

# ATTACHMENT A – SMALL AND DISADVANTAGED, MINORITY-, WOMEN-, AND VETERAN-OWNED BUSINESS OUTREACH PLAN

<b>Proposer Name:</b>	<u>Olivia Tomlinson</u>	<b>Date:</b>	<u>03/19/2025</u>
<b>Project Name:</b>	<u>Activated Carbon Replacement in OC Units</u>	<b>Project Number:</b>	<u>Bid #29-2025</u>
<b>Contact Name:</b>	<u>Brian Marcum</u>	<b>Telephone:</b>	<u>678-935-1431 ext. 233</u>
<b>Email:</b>	<u>otomlinson@pureairfiltration.com</u>		

The mission of the Minority Business Enterprise Program is to facilitate the full participation of disadvantaged businesses, minority-, women-, veteran-, and service-disabled veteran-owned businesses in the procurement process and to promote economic inclusion as a business imperative essential to the long-term economic viability of Lexington-Fayette Urban County Government.

To that end, small and disadvantaged businesses, including minority-, woman-, veteran-, and service-disabled veteran-owned businesses, must have an equal opportunity to be utilized in the performance of contracts with public funds spent from certain discretionary agreements. By submitting its offer, Bidder/Proposer certifies that it has taken, and if there are further opportunities will take, reasonable steps to ensure that small and disadvantaged businesses, including minority-, woman-, veteran-, and service-disabled veteran-owned businesses, are provided an equal opportunity to compete for and participate in the performance of any subcontracts resulting from this procurement.

The information submitted in response to this clause will not be considered in any scored evaluation. Failure to submit this form may cause the bid or proposal to be rejected.

**Is the Bidder/ Proposer a certified firm?** Yes ☒ No ☐

If yes, indicate all certification type(s):

DBE ☐

MBE ☐

WBE ☒

SBE ☐

VOSB/SDVOSB ☐

and supply a copy of the certificate and/or certification letter if not currently listed on the city's Minority Business Enterprise Program's (MBEP) certified list.

**1. Include a list of firms that Bidder/ Proposer has had a contractual relationship with within the last two years that are minority-owned, woman-owned, veteran-owned or small businesses, regardless of their certification status.**

◀ AirEnergy Inc.

▶

**2. Does Bidder/Proposer foresee any subcontracting opportunities for this procurement?**

Yes ☐ No ☒

If no, please explain why in the field below. Do not complete the rest of this form and submit this first page with your bid and/or proposal. PureAir has an internal service team.

If yes, please complete the following pages and submit all pages with your bid and/or proposal.

**Describe the steps Bidder/Proposer took to solicit small and disadvantaged businesses, including MBEs, WBEs, VOSBs, and SDVOSBs, for subcontracting opportunities for this procurement.**

**3. Check the good faith and outreach efforts the Bidder/Proposer used to encourage the participation of small and disadvantaged businesses including, MBEs, WBEs, VOSBs and SDVOSBs:**

- ☐ Bidder placed advertisements in search of prospective small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs for the solicitation.
- ☐ Bidder attended LFUCG Procurement Economic Inclusion Outreach event(s) within the past year.
- ☐ Bidder attended pre-bid and/or pre-proposal meetings for this solicitation.
- ☐ Bidder sponsored an Economic Inclusion Outreach event.
- ☐ Bidder requested a list of certified small, DBE, MBE, WBE, VOSB and/or SDVOSB subcontractors or suppliers from LFUCG.
- ☐ Bidder contacted organizations that work with small, DBE, MBE, WBE, VOSB and/or SDVOSB companies.
- ☐ Bidder sent written notices to certified small, DBE, MBE, WBE, VOSB and SDVOSB businesses.
- ☐ Bidder followed up to initial solicitations with interested small, DBE, MBE, WBE, VOSB and/or SDVOSB.
- ☐ Bidder provided small, DBE, MBE, WBE, VOSB and/or SDVOSB businesses interested in performing the solicited work with prompt access to the plans, specifications, scope of work, and requirements of the solicitation.
- ☐ Bidder made efforts to segment portions of the work to be performed by small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, including dividing sub-bid/partnership opportunities into economically feasible units/parcels, to facilitate participation.



- ☐ Bidder negotiated in good faith with interested small, DBE, MBE, WBE, VOSB and/or SDVOSB businesses.
- ☐ Bidder provided adequate rationale for rejecting any small business', DBEs, MBEs, WBEs, VOSBs or SDVOSBs for lack of qualifications.
- ☐ Bidder offered assistance in obtaining bonding, insurance, financial, equipment, or other resources to small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs, in an effort to assist them in meeting project requirements.
- ☐ Bidder made efforts to expand the search for small businesses, DBEs MBEs, WBEs, VOSBs and/or SDVOSBs beyond the usual geographic boundaries.
- ☐ Bidder made other reasonable efforts to include small businesses, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs participation.

**4. Bidder/Proposer must include documentation, including the date each effort was made, the medium through which each effort was made, and the outcome of each effort with this form, regardless of the level of small, DBE, MBE, WBE, VOSB and/or SDVOSB participation. Examples of required documentation include copies of email communications, copies of newspaper advertisements, or copies of quotations received from interested small businesses, DBEs, MBEs, WBEs, VOSBs or SDVOSBs.**

 Click or tap here to enter text. 

**For detailed information regarding outreach efforts that satisfy the MBE Program's requirements, please see "Documentation Required for Good Faith Efforts and Outreach Plans" page.**

**Note: The Bidder/Proposer must be willing to report the identity of each subcontractor and the value of each subcontract to MBEP if awarded a contract from this procurement.**

**Failure to submit the documentation requested may be cause for rejection of the bid. Bidders may include any other documentation deemed relevant to this requirement, which is subject to review by the MBE Liaison. Documentation of Good Faith and Outreach Efforts must be submitted with the bid, regardless of the proposed level of SBEs, DBEs, MBEs, WBEs, VOSBs and/or SDVOSBs participation in the procurement. If the Good Faith and Outreach Effort Form and associated documentation is not submitted with the bid response, the bid may be rejected.**

The undersigned acknowledges that all information is accurate. Any misrepresentations may result in termination of the contract and/or be subject to applicable Federal and State laws concerning false statements and claims.

PureAir Filtration  
**Company**  
03/19/2025  
**Date**

Olivia Tomlinson  
**Company Representative**  
Sales Associate  
**Title**

4870-1925-6809, v. 1

## **RISK MANAGEMENT PROVISIONS INSURANCE AND INDEMNIFICATION**

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### **INDEMNIFICATION AND HOLD HARMLESS PROVISION**

- (1) It is understood and agreed by the parties that Contractor 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 Contractor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "CONTRACTOR") 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.
- (2) CONTRACTOR shall indemnify, 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 CONTRACTOR'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 CONTRACTOR; 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, CONTRACTOR 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.
- (5) LFUCG is a political subdivision of the Commonwealth of Kentucky. CONTRACTOR acknowledges and agrees that LFUCG is unable to provide indemnity or otherwise save, hold harmless, or defend the CONTRACTOR in any manner.

### **FINANCIAL RESPONSIBILITY**

BIDDER/CONTRACTOR understands and agrees that it shall demonstrate the ability to assure compliance with the above Indemnity provisions and these other risk management provisions prior to final acceptance of its bid and the commencement of any work or provision of goods.

### **INSURANCE REQUIREMENTS**

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AND 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/CONTRACTOR 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 LFUCG 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 CONTRACTOR. The cost of such insurance shall be included in any bid:

<u>Coverage</u>	<u>Limits</u>
General Liability (Insurance Services Office Form CG 00 01)	\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit
Auto Liability	\$1 million per occurrence
Worker's Compensation	Statutory
Employer's Liability	\$100,000
Excess Liability	\$1 million per occurrence

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 (DOI). LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI approved forms.
- b. The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. The General Liability Policy shall include Premises and Operations coverage unless it is deemed not to apply by LFUCG.
- d. The General Liability Policy shall include Employment Practices Liability coverage or an endorsement in a minimum amount of \$1 million unless it is deemed not to apply by LFUCG.
- e. The Policy shall include Umbrella/Excess Liability coverage in the amount of \$1 million per occurrence, \$1 million aggregate, unless it is deemed not to apply by LFUCG.
- f. 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.
- g. 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 LFUCG, evidence of renewal of an expiring policy must be submitted to LFUCG, 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.

#### Deductibles and Self-Insured Programs

**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/CONTRACTOR'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

#### Safety and Loss Control

CONTRACTOR shall comply with all applicable federal, state, and local safety standards related to the performance of its works or services under this Agreement and take necessary action to protect the life, health and safety and property of all of its personnel on the job site, the public, and LFUCG.

#### Verification of Coverage

BIDDER/CONTRACTOR 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

CONTRACTOR 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/CONTRACTOR 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/CONTRACTOR for any such insurance premiums purchased, or suspending or terminating the work.

# Lexington Fayette Urban County Government (LFUCG)

## **Bid Specifications for Activated Carbon Media Replacement in Odor Control Units**

The LFUCG is issuing this Bid for the sole purpose of obtaining responsive proposals and price quotes from responsible Bidders (Vendors) for removal, disposal, and replacement of spent activated carbon media in existing odor control carbon adsorber vessels. The new activated carbon must meet the performance and quality standards outlined in this specification. The primary goal is to allow for quick media replacement as needed to ensure continued effective operation of the odor control units to mitigate odors and improve the air quality around these systems.

The intent of this Bid is to prequalify viable Vendor(s) for activated carbon media replacement so that changeouts can be completed in a timely manner. Bidders must be regularly engaged in the supply and replacement of carbon media in odor control systems. Bidders must be able to demonstrate two (2) years minimum experience of providing carbon media replacement **successfully** to at least three (3) other municipal clients. *LFUCG will only consider proposals from Bidders who demonstrate similar experience with satisfactory reference verifications.*

LFUCG requires that selected bidder(s) shall provide all labor, materials, equipment, and supervision necessary for the complete and satisfactory performance for all activities associated with the replacement of the activated carbon media in accordance with this agreement. Services shall be provided in a safe, secure, effective, and efficient manner, compliant with all applicable laws, rules, and regulations during transportation, disposal, and installation. All costs for services provided shall be paid in accordance with the payment provisions as described in contract documents.

There is no guarantee of work associated with this Bid. LFUCG wishes to establish a price contract with all viable vendors.

### **SCOPE OF WORK**

#### **A. MEDIA REQUIREMENTS**

Provide new activated carbon media that shall meet or exceed the following specifications (media provided under this contract is subject to Owner approval):

<b>1. Media #1- Activated Carbon Media</b>	
Minimum Hydrogen Sulfide (H <sub>2</sub> S) Breakthrough Capacity	0.03 g of H <sub>2</sub> S removed per cc of carbon
Particle type	Pelletized
Particle size	4.0 mm diameter
Density	30 lb/ft <sup>3</sup>
Maximum Moisture Content	5% by weight
Crush Test	95 lb
Maximum Abrasion Loss	3%
Maximum Ash Content	5% by weight
Ignition Temperature	>400 °C
CTC Value	70%



Iodine Number	1,100 mg/g
Minimum Butane Activity	27%
Activated carbon media shall be a high-quality bituminous coal or coconut shell pellet. Media types that require water regeneration are not acceptable. No chemical impregnation of the of the activated carbon and no wood-based materials are permitted.	

<b>2. Media #2- High H2S Capacity Carbon Media</b>	
Minimum Hydrogen Sulfide (H <sub>2</sub> S) Breakthrough Capacity	0.30 g of H <sub>2</sub> S removed per cc of carbon
Particle type	Pelletized
Particle size	4.0 mm diameter
Density	30 lb/ft <sup>3</sup>
Maximum Moisture Content	5% by weight
Crush Test	97 lb
Maximum Abrasion Loss	3%
Maximum Ash Content	5% by weight
Ignition Temperature	>400 °C
CTC Value	70%
Iodine Number	1,100 mg/g
Minimum Butane Activity	27%
Activated carbon media shall be a high-quality bituminous coal or coconut shell pellet. Media types that require water regeneration are not acceptable. No chemical impregnation of the of the activated carbon and no wood-based materials are permitted.	

<b>3. Media #3- 8% Potassium Permanganate Impregnated Media</b>	
Minimum Hydrogen Sulfide (H <sub>2</sub> S) Breakthrough Capacity	0.11 g of H <sub>2</sub> S removed per cc of carbon
Particle type	Spherical
Particle size	4.0 mm diameter
Density	50 lb/ft <sup>3</sup>
Maximum Moisture Content	20% by weight
Crush Test	40-60 lb
Maximum Abrasion Loss	3%
Ignition Temperature	Not ignitable
Potassium Permanganate Content	8% minimum

**Blended Medias (blending must be uniform and completed prior to shipping to site)**

**4. Media #4 (Blend): 50% Media #1/50% Media #2**

**5. Media #5 (Blend): 50% Media #1/50% Media #3**

**6. Media #6 (Blend): 50% Media #2/50% Media #3**

**7. Media #7 (Blend): 50% Media #3/25% Media #1/25% Media #2**

## **B. DELIVERY REQUIREMENTS**

- Delivery must be completed within the agreed-upon timeline specified in the contract.
- Contractor shall ensure media is packaged to prevent damage during transit.
- All shipments must include Bill of Lading(s) and Safety Data Sheet(s).

## **C. FIELD SERVICE REQUIREMENTS**

Contractor shall provide all labor, materials, equipment and supervision necessary for the complete and satisfactory performance of the following tasks:

- Removal of spent activated carbon:
  - Contractor shall safely remove and dispose of the spent activated carbon from the specified odor control units. This includes proper handling, transportation, and disposal in accordance with all applicable federal, state and local regulations.
  - Inspection of inside of empty vessel which shall include pictures and identification of any damage that requires immediate or long-term attention.
  - Replacement of media netting.
- Installation of new activated carbon media:
  - Contractor shall install new activated carbon media of the specified type and quantity uniformly into the odor control unit(s) according to the manufacturer's instructions to ensure optimal performance. The carbon must be loaded to the specified bed depth and packed to the required density.
  - Cleanup of area, including any media on the ground that may have spilt during change out.
- Startup and Testing:
  - After the new carbon is installed, the Contractor shall perform a startup and testing procedure to verify the proper operation of the odor control unit(s). This may include, but is not limited to, pressure drop testing, and airflow verification.
- Performance Testing:
  - Conduct testing to verify the performance of the new carbon
  - Tests must include measuring and recording H<sub>2</sub>S inlet and outlet readings to calculate H<sub>2</sub>S removal efficiency and airflow pressure drops
- Safety Requirements:
  - All work must be performed in compliance with OSHA regulations
  - Personal Protective Equipment (PPE) must be provided for all workers

#### **D. REPORTING REQUIREMENTS**

Contractor shall provide a brief report within one week of media changeout. Report shall include the following:

- Company name and address
- Date(s) of media changeout
- Type and volume of media installed
- Pictures of the following:
  - Overall system prior to media changeout (2)
  - Media removal (2)
  - Media installation (2)
  - Vessel interior (4)
  - Overall system after media changeout (2)
- Performance Testing Results:
  - Calculated H<sub>2</sub>S removal efficiency from Performance Testing
  - Airflow pressure drops
- Media cut sheets
- Bill of Lading(s)
- Safety Data Sheet(s)

#### **BID SUBMITTAL REQUIREMENTS**

The following items must be submitted in response to this Bid:

- **Company Information:** Name of the company, a brief narrative description, and contact information for the representative.
- **Media Descriptions:** Provide detailed information for each media.
- **Safety Documentation:** Provide Safety Data Sheets (SDS) for each media.
- **Experience:** Information from three (3) municipal wastewater clients demonstrating your company's two (2) year(s) minimum experience in supplying and replacing carbon media in odor control systems. Contact names and email addresses should be provided.
- **Pricing:** Provide pricing per cubic foot (ft<sup>3</sup>) for each media listed below. Price shall include costs for all items in scope described above. Use the pricing table below:

<b>DESCRIPTION</b>	<b>Unit Price* (\$/ft<sup>3</sup>)</b>
<b>1. Media #1- Activated Carbon Media</b>	\$88
<b>2. Media #2- High H2S Capacity Carbon Media</b>	\$125
<b>3. Media #3- 8% Potassium Permanganate Impregnated Media</b>	\$120
<b>4. Media #4 (Blend): 50% Media #1/50% Media #2</b>	\$126.50
<b>5. Media #5 (Blend): 50% Media #1/50% Media #3</b>	\$124
<b>6. Media #6 (Blend): 50% Media #2/50% Media #3</b>	\$142.50
<b>7. Media #7 (Blend): 50% Media #3/25% Media #1/25% Media #2</b>	\$133.25

\*Price shall include all items in the scope above. Media must be replaced within 30 days of issuance of Purchase Order.

- **Questions must be submitted in ionwave**





Headquarters: Atlanta, USA  
Offices: Shanghai, CN  
Amsterdam, NL

Your World Leader in the Removal of Gases, Odors, & Vapors

Date: March 19<sup>th</sup>, 2025  
Lexington Fayette Urban County Government  
200 East Main Street  
Lexington, KY 40507  
Company Information

Leading the way in removing unwanted and toxic gases from the air for the past 20 years, PureAir® Filtration was founded in Atlanta, GA, USA after seeing many needs in the market that were not being met by other companies. Specifically, the lack of innovation, flexibility, and responsiveness seen by the primary industry providers at the time, hindered both third party distributors in serving their local markets, and end-user customers that each had unique problems.

PureAir's approach to gas-phase filtration sets the company apart from other gas adsorption companies, specifically with regard to the degree of customization and design services afforded to each client. Systems are not one-size-fits-all – instead PureAir custom designs and manufactures scrubber equipment and chemisorbant media based on the application, industry, and specific issue a customer needs addressed and managed.

Each problem is approached and analyzed individually to determine the root cause, and then a custom solution is designed and manufactured to fully eliminate the issue. PureAir's responsive customer service team also offers services and tools, such as field service and replacement media monitoring, to ensure the problem never returns.

PureAir attributes its strong and continual growth to its flexibility, systems approach, industry expertise, continuous innovation, and focus on customer service. With offices in Atlanta, Georgia; Amsterdam, Netherlands; and Shanghai, China, the company is positioned to support customers around the globe, in European, Latin American, Asian, Middle Eastern, and African markets.

Best Regards,

**Olivia Tomlinson**

*Sales Associate*

PureAir Filtration

**T: 678-935-1431 ext: 233 E: [otomlinson@pureairfiltration.com](mailto:otomlinson@pureairfiltration.com)**



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Fax: 678-935-0648



[info@pureairfiltration.com](mailto:info@pureairfiltration.com)  
[www.pureairfiltration.com](http://www.pureairfiltration.com)



PureAir Filtration  
6050 Peachtree Parkway, Suite 240-187  
Norcross, GA 30092 U.S.A.

# SAFETY DATA SHEET

Version: 2.0 Date: March 1, 2022

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878,  
and United States Regulation 29 CFR 1910

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product Name	PureAir 4, PureAir 8, PureAir 12
Product Code	PA4-8-12
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified Use(s)	Gas-phase air filtration
Uses Advised Against	Do not use for applications other than those specified.
<b>1.3 Details of the supplier of the safety data sheet</b>	
Company Identification	Pure Air Filtration, LLC 6050 Peachtree Parkway Suite 240-187 Atlanta, GA 30092 USA
	PureAir Filtration BV Tijnmuiden 79 1046 AK Amsterdam The Netherlands
Telephone	+1 (678) 935-1431 ; Office Hours are Monday through Friday, 8:00AM to 5:00PM Eastern Standard Time
Fax	+1 (678) 935-0648
E-mail (competent person)	ajameson@pureairfiltration.com
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	CHEMTREC (international): +1 703-741-5970 (24 hour line) The line is available 24 hours; in the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.
Language(s) spoken:	English

## SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
Regulation (EC) No. 1272/2008 (CLP)	Ox. Sol. 2; H272 Skin Corr. 1C; H314 Eye Dam. 1; H318 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410
<b>2.2 Label elements</b>	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) PureAir 4, PureAir 8, PureAir 12
Contains:	Aluminium oxide, water, potassium permanganate proprietary blend

Hazard Pictogram(s)



Signal Word(s)

Danger

Hazard Statement(s)

H272: May intensify fire; oxidizer.  
 H314: Causes severe skin burns and eye damage.  
 H361d: Suspected of damaging the unborn child.  
 H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P220: Keep away from clothing and other combustible materials.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves and eye/face protection.  
 P303+P361+P353: IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310: Immediately call a doctor.

Supplemental information

Not applicable.

**2.3 Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

NOTE: The Hazard Classification listed in this section refers to the chemical at a pure concentration. It has been determined that the remaining ingredient(s) of this component/product are NOT CLASSIFIED AS HAZARDOUS CHEMICALS due to their physical and/or chemical nature and/or concentration in solution, in accordance with California and Federal OSHA regulations (Federal Register 29CFR 1910.1200), and The Chemicals (Hazard Information and Packaging for Supply) Regulations (European Community).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Chemical Name and Synonyms: Permanganate Impregnated Alumina  
 Formula: Potassium permanganate impregnant (4%-12%) on aluminum oxide (66%-70%)  
 Proprietary ingredient: less than 10%  
 Chemical Family: Inorganic Oxidizer

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Aluminum oxide	66 - 70	1344-28-1	215-691-6	01-2119529248-35-0396	STOT RE 1; H372 Eye Irrit. 2 Skin Irrit. 2 Acute Tox 4; H302 Repr 2; H361 Aquatic Chronic 3; H412

Potassium permanganate	4 - 12	7722-64-7	231-760-3	01-2119480139	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 STOT RE 2; H373 Repr. 2; H361d Aquatic Acute 1; H400 M-factor: 10 Aquatic Chronic 1; H410 M-factor: 10
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Note: For full text of H phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear suitable protective clothing and gloves. Avoid contact with skin, eyes or clothing. Do not breathe dust. Do not ingest. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. If swallowed then seek immediate medical assistance.

Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. Call a POISON CENTER/doctor.

Eye Contact

IF IN EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. After rinsing affected eyes must be seen by an ophthalmologist. Call a POISON CENTER/doctor.

Ingestion

IF SWALLOWED: Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. Suspected of damaging the unborn child.

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to a physician:

Treat symptomatically.

IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing media

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or water spray. Alcohol resistant foams (ATC type) are preferred.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

Oxidising

May form explosive dust/air mixtures. May decompose if heated. Not flammable but will support combustion.

May intensify fire; oxidiser. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

### 5.3 Advice for fire-fighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Do not allow run-off from fire-fighting to enter drains or water courses. All contaminated waste water must be processed in an industrial or municipal wastewater treatment plant that incorporates both primary and secondary treatments.



## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Small spillages:  
Oxidising

Ensure operatives are trained to minimise exposures. Ensure suitable personal protection during removal of spillages. Use personal protective equipment as required. See Section: 8. Wear suitable protective clothing, gloves and eye/face protection. Avoid all contact. Avoid dust formation. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. In case of leakage, eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid exposure. Clean up spill immediately.

May intensify fire; oxidiser. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

### 6.2 Environmental precautions

Collect spillage. Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

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

Do not mix with combustible material. Provided it is safe to do so, isolate the source of the leak. Dry sweeping is not recommended. If necessary, light water spray will reduce dust for dry sweeping, but over-wetting may produce very slippery walking surfaces. Transfer to a container for disposal. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of this material and its container as hazardous waste.

Small spillages:

Sweep up spilled substance and remove to safe place. Avoid dust generation. Damp down to avoid dust generation.

### 6.4 Reference to other sections

See Also Section: 8, 13

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Oxidising

Ensure operatives are trained to minimise exposures. Use personal protective equipment as required. See Section: 8. Wear suitable protective clothing, gloves and eye/face protection. Avoid all contact. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

Do not store near combustible materials. Do not mix with combustible material. May intensify fire; oxidiser. Take precautionary measures against static discharge.

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

Storage temperature

Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation.

Keep only in the original container/package in a cool well-ventilated place. Should be stored inside, away from rainwater, etc.

Incompatible materials

Protect from moisture. Keep away from strong oxidizing substances.

### 7.3 Specific end use(s)

See Section: 1.2

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits




Ireland HSA (Code of Practice) recommends the following limits for dusts: 10 mg/m<sup>3</sup> (8hr TWA) total inhalable dust; 4 mg/m<sup>3</sup> (8hr TWA) total respirable dust

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Aluminium oxides	1344-28-1		10 (1) 4 (2)			(1) (2)

(1) Inhalable Dust

(2) Respirable Dust

Source: Health and Safety Authority, Code of Practice, 2020

<b>8.1.2</b>	<b>Biological limit value</b>	None Known
<b>8.1.3</b>	<b>PNECs and DNELs</b>	Not applicable.
<b>8.2</b>	<b>Exposure controls</b>	
<b>8.2.1</b>	<b>Appropriate engineering controls</b>	Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Good hygiene practices and housekeeping measures. A washing facility/water for eye and skin cleaning purposes should be present. Preferably use engineering controls to keep exposures below the OEL or DNEL.
<b>8.2.2</b>	<b>Individual protection measures, such as personal protective equipment (PPE)</b>	Use personal protective equipment as required. Wear suitable protective clothing, gloves and eye/face protection. Keep good industrial hygiene. Do not breathe dust. Avoid all contact. Wash hands before breaks and after work. Keep work clothes separately. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke at the work place.
Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.		
	Eye/ face protection	Use eye protection according to EN 166, designed to protect against dusts. Small Quantities: Not normally required
		
	Skin protection	<b>Hand protection:</b> Wear gloves to EN374 to protect against skin effects from powders. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.
		
	Respiratory protection	<b>Skin protection:</b> Wear suitable coveralls to prevent exposure to the skin.
		Respiratory protective device with a particles filter
	Thermal hazards	Exothermic reaction with: Reducing agent. Wear a Heat Protective Suit.
<b>8.2.3</b>	<b>Environmental Exposure Controls</b>	Prevent release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Physical state	Solid Pellets
	Colour	Purple
	Odor	No odor
	Melting point/freezing point	Not applicable.
	Boiling point or initial boiling point and boiling range	Not applicable.
	Flammability	Not flammable
	Lower and upper explosion limit	Not explosive
	Flash point	Not applicable.
	Auto-ignition temperature	Not applicable.
	Decomposition Temperature	Not applicable.
	pH	Not applicable.
	Kinematic viscosity	Not applicable.
	Solubility	Partly soluble in water.
	Partition coefficient: n-octanol/water (log value)	Not applicable.

Vapour pressure	Not applicable.
Density and/or relative density	No data available
Relative vapour density	Not applicable.
Particle characteristics	Median Particle Diameter 4mm

**9.2 Other information**

Oxidising properties	Oxidizing solid
Bulk density	720 – 960 kg/m <sup>3</sup> (45 – 60 lb/ cu ft)

**SECTION 10: STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	Stable under normal conditions
<b>10.2 Chemical stability</b>	Stable under normal conditions
<b>10.3 Possibility of hazardous reactions</b>	May intensify fire; oxidizer. <a href="#">Click or tap here to enter text.</a>
<b>10.4 Conditions to avoid</b>	Protect from moisture and damage.
<b>10.5 Incompatible materials</b>	Strong acids. Strong reducing and oxidizing agents.
<b>10.6 Hazardous decomposition product(s)</b>	Hazardous combustion products: Potassium Oxide, Manganese, oxides of manganese

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008</b>	
<b>Acute toxicity - Ingestion</b>	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day. Harmonised Classification Acute Tox. 4; H302: Harmful if swallowed.
<b>Acute toxicity - Inhalation</b>	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 > 20 ml/l
<b>Acute toxicity - Skin Contact</b>	Mixture: Based on available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 > 2000 mg/kg bw/day
<b>Skin corrosion/irritation</b>	Mixture: Skin. Corr. 1C; H314: Causes severe skin burns and eye damage.
<b>Serious eye damage/irritation</b>	Potassium permanganate Skin Corr. 1C; H314: Causes severe skin burns and eye damage. Corrosive to skin. (rabbit) (EU Method B.4)
<b>Respiratory or skin sensitization</b>	Mixture: Eye. Dam. 1; H318: Causes serious eye damage.
<b>Germ cell mutagenicity</b>	Potassium permanganate Can be waived on basis of: Skin Corr. 1C
<b>Carcinogenicity</b>	Mixture: Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Mixture: Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	Mixture: Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Mixture: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Mixture: Repr. 2; H361d: Suspected of damaging the unborn child. Harmonized Classification: Repr. 2; H361d: Suspected of damaging the unborn child.
<b>11.2 Information on other hazards</b>	Mixture: Based on available data, the classification criteria are not met.
<b>11.2.1 Endocrine disrupting properties</b>	Mixture: Based on available data, the classification criteria are not met.
<b>11.2.2 Other information</b>	Mixture: Not relevant – solid mixture
	No substances identified as having endocrine-disrupting properties.
	No data available

**SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	Mixture: Aquatic Acute 1; H400: Very toxic to aquatic life. Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects. Estimated LC50 (Mixture): Short Term (acute) > 0.1 – ≤ 1 mg/L Long term (chronic) > 0.1 – ≤ 1 mg/L
	Potassium permanganate Aquatic Acute 1; H400: Very toxic to aquatic life. Harmonised Classification M-factor: 10 Short Term (acute): LC50 (96h) 0.47 mg/L (Fish) (EU Method C.1)

EC50(48h) 0.06 mg/L (Daphnia magna) (EU Method C.2)  
 EbC50: (72h) 0.43 mg/L (Algae)(EU Method C.3)  
 Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Harmonised Classification

M-factor: 10

No experimental data available.

No data for the mixture as a whole.

**12.2 Persistence and degradability**

**12.3 Bioaccumulative potential**

**12.4 Mobility in soil**

**12.5 Results of PBT and vPvB assessment**

**12.6 Endocrine disrupting properties**

**12.7 Other adverse effects**

Potassium permanganate Testing can be waived because the substance is an inorganic compound

Potassium permanganate Testing can be waived because the substance is an inorganic compound

Potassium permanganate Testing can be waived because the substance is an inorganic compound

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

No substances identified as having endocrine-disrupting properties.

None Known

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive). Dispose of wastes in an approved waste disposal facility.

\*Note that this is for the unused product. Used product is a nonhazardous salt. See MSDS for used product.

## SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO	US DOT 49 CFR 172.101
<b>14.1 UN number or ID number</b>	3085	3085	3085	3085
<b>14.2 UN proper shipping name</b>	OXIDIZING SOLID, CORROSIVE, N.O.S. (Potassium permanganate)	OXIDIZING SOLID, CORROSIVE, N.O.S. (Potassium permanganate)	OXIDIZING SOLID, CORROSIVE, N.O.S. (Potassium permanganate)	OXIDIZING SOLID, CORROSIVE, N.O.S.
<b>14.3 Transport hazard class(es)</b>	5.1 (8)	5.1 (8)	5.1 (8)	5.1 (8)
<b>14.4 Packing group</b>	II	II	II	II
<b>14.5 Environmental hazards</b>	Yes.	Yes.	Yes.	Yes
<b>14.6 Special precautions for user</b>	None Known			
<b>14.7 Maritime transport in bulk according to IMO instruments</b>		No transport as bulk according to IBC Code.		
<b>14.8 Additional Information</b>	Not applicable			

## SECTION 15: REGULATORY INFORMATION

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

**15.1.1 EU regulations**

Authorisations and/or Restrictions On Use  
 CoRAP Substance Evaluation

Not restricted for the intended use(s) of the product.  
 Substance identified for evaluation in 2017 evaluating Member State has concluded that no additional information is required

**15.1.2 National regulations**

Germany  
 United States

Water hazard class: 3  
 National Inventory TSCA- All components are listed under the TSCA 8 b inventory as active or exempted. No components are listed under TSCA 12 b  
 RA Section 304 CERCLA  
 Potassium Permanganate reportable quantity 100 lbs (45.4 kg)  
 RA Section 311/312 Hazards



USA State Regulations

Potassium permanganate : fire hazard, immediate (acute) health hazard, delayed health hazard

RA Section 313 Toxic Release inventory

OSHA 29 CFR 19.10

Air Act Section 112b

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, California)- this product cannot expose you to products know to California to cause cancer or reproductive harm

**15.2 Chemical Safety Assessment**

A chemical safety assessment is not required under REACH.

**SECTION 16: OTHER INFORMATION**

**The following sections contain revisions or new statements:** Updated substance / mixture classification. Updated version and date. New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

**References:** Existing Safety Data Sheet (SDS) Substance with harmonized classification and labelling according to Regulation (EC) No. 1272/2008, Annex VI. Existing ECHA registration for Potassium permanganate (CAS No. 7722-64-7)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture according to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Ox. Sol. 2: H272	Expert judgement
Skin Corr. 1C: H314	Calculation method
Eye Dam. 1: H318	Calculation method
Repr. 2: H361d	Calculation method
Aquatic Acute 1: H400	Summation Calculation
Aquatic Chronic 1: H410	Summation Calculation

**LEGEND**

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CoRAP	Community Rolling Action Plan (CoRAP)
DNEL	Derived no effect level
EC50	Half maximal effective concentration
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
OEL	Occupational exposure limits
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

**Hazard classification / Classification code:**

Ox. Sol. 2; Oxidizing solid, Category 2  
 Acute Tox. 4; Acute Toxicity, Category 4  
 Skin Corr. 1C; Skin corrosion/irritation, Category 1C  
 Eye Dam. 1; Eye damage, category 1  
 Repr. 2; Reproductive toxicity, Category 2  
 STOT RE 2; Specific target organ toxicity — repeated exposure, Category 2

**Hazard Statement(s)**

H272: May intensify fire; oxidizer.  
 H302: Harmful if swallowed.  
 H314: Causes severe skin burns and eye damage.  
 H318: Causes serious eye damage.  
 H361d: Suspected of damaging the unborn child.  
 H373: May cause damage to organs through prolonged or repeated exposure.

Aquatic Acute 1; Hazardous to the aquatic environment, acute, Category 1 H400: Very toxic to aquatic life.

Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic , H410: Very toxic to aquatic life with long lasting effects.  
Category 1

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

#### Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Pure Air Filtration gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Pure Air Filtration accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.



# PureAir 8 Adsorbent Media



## Basic Information:

- PureAir 8 targets a broad range of gases that cause corrosion, odor, and other unwanted gases.
- PureAir Filtration starts with the highest grade activated alumina to ensure that the greatest possible adsorption capacity is reached. This alumina is then impregnated with potassium permanganate.
- PureAir Filtration adds a proprietary additive during the process in order to keep all eight percent of the permanganate available for reaction.

PureAir 8 has been developed to have roughly twice the capacity of PureAir 4. This media meets the requirements for UL certification.



General Description	Product Specifications	Removal Capability
Spherical or cylindrical porous pellets formed from a combination of powdered activated alumina and other binders, suitably impregnated with potassium permanganate to provide optimum adsorption, absorption, and oxidation of a wide variety of gaseous contaminants.	<ul style="list-style-type: none"><li>• Particle Size: 4mm sphere</li><li>• Density: 800 kg/m<sup>3</sup> (50 lbs/ft<sup>3</sup>)</li><li>• Surface Area: 350 m<sup>2</sup>/g</li><li>• Typical Moisture Content %: 20%</li><li>• Crush Test: 40 lbs - 60 lbs</li><li>• Abrasion Loss %: 3% max</li><li>• Relative Pressure Drop: See Curve A*</li><li>• Ignition Temperature: Non-ignitable</li><li>• Permanganate Content: 8% minimum</li></ul> <p>*See Curves Details at <a href="http://pureairfiltration.com/curves/">pureairfiltration.com/curves/</a></p>	<ul style="list-style-type: none"><li>• Hydrogen Sulfide: 14% min by weight, or 0.112 grams per cc (per ASTM D6646-03)</li><li>• Sulfur Dioxide: 7% by weight</li><li>• Nitric Oxide: 5% by weight</li><li>• Formaldehyde: 2.5% by weight</li><li>• Nitric Dioxide: 20.96% by weight</li></ul>

+1 678.935.1431

Toll Free: 866.543.7479

[www.PureAirFiltration.com](http://www.PureAirFiltration.com)

6050 Peachtree Pkwy, Suite 240-187, Atlanta, GA 30092 U.S.A.





# SAFETY DATA SHEET

Version: 2.0 Date: September 1, 2022

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878,  
and United States Regulation 29 CFR 1910

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1</b>	<b>Product identifier</b>	
	Product Name	Sulphasorb XL
	Product Code	SXL
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>	
	Identified Use(s)	Gas-phase air filtration
	Uses Advised Against	Do not use for applications other than those specified. It does not remove particulates or biological agents. Not for water purification.
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>	
	Company Identification	Pure Air Filtration, LLC 6050 Peachtree Parkway Suite 240-187 Atlanta, GA 30092 USA
		PureAir Filtration BV Tijnmuiden 79 1046 AK Amsterdam The Netherlands
	Telephone	+1 (678) 935-1431 ; Office Hours are Monday through Friday, 8:00AM to 5:00PM Eastern Standard Time
	Fax	+1 (678) 935-0648
	E-mail (competent person)	ajameson@pureairfiltration.com
<b>1.4</b>	<b>Emergency telephone number</b>	
	Emergency Phone No.	CHEMTREC (international): +1 703-741-5970 (24 hour line) The line is available 24 hours; in the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.
	Language(s) spoken:	English

## SECTION 2: HAZARDS IDENTIFICATION

<b>2.1</b>	<b>Classification of the substance or mixture</b>	
	Regulation (EC) No. 1272/2008 (CLP)	Skin Irrit. H315 and Eye Irrit 2- H319 & H320; This media is classified by the manufacturer for health effects as a mixture according to EU Directive 1999/45/EC with Xi; R36/37/38
<b>2.2</b>	<b>Label elements</b>	
	Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Sulphasorb XL
	Contains:	Carbon, magnesium oxide proprietary mixture

Hazard Pictogram(s)



Signal Word(s)

Warning

Hazard Statement(s)

H315: May cause skin irritation

H319 and H320- may cause eye irritation

Precautionary Statement(s)

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye

P302+352: IF ON SKIN: wash with plenty of soap and water.

P332+313: IF SKIN irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse

P401: Store in a cool, dry area in enclosed containers

P305+P351+P338- if in eyes, rinse with water for several minutes (after removing contact lenses if present and easy to do without causing further irritation)

Supplemental information

Not applicable.

**2.3 Other hazards*****Most Important Hazards:***

-If crushed or handled extensively, dust may evolve and can be irritating to the eyes, skin or respiratory tract.

-Confined space entry. Appropriate safety precautions should be taken when entering any confined space. Entering containers or media vessel/tanks housing activated carbon for inspection, maintenance, etc. may constitute a confined space entry. In confined spaces, activated carbon may remove oxygen from the air causing severe hazards for workers entering such spaces. Before and during the entrance of a confined space all local, state, and federal regulations should be followed.

-The following medical conditions may be aggravated by exposure to the product: asthma, chronic lung disease, and skin rashes.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

<b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>
--

**3 Mixtures**

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	Harmonization	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Carbon	Up to 50%	380210	7722-64-7	231-760-3	01-2119488894-16-XXXX	Eye Irrit. 2; H319+H320 Skin Irrit. 2; H315
Magnesium Oxide	Up to 25%	25199040	1309-48-4	215-171-9	This product is currently exempt from REACH registration requirements	Eye Irrit. 2; H319+H320



Note: For full text of H phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear suitable protective clothing and gloves. Avoid contact with skin, eyes or clothing. Do not breathe dust. Do not ingest. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. If swallowed then seek immediate medical assistance.

Inhalation

Move to fresh air. If breathing difficulty occurs or persists, seek medical attention.

Skin Contact

Wash area with soap and water. If irritated persists, seek medical attention. Rinse skin with water/shower. Gently wash with plenty of soap and water.

Eye Contact

IF IN EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

IF SWALLOWED: Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Skin irritation

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to a physician:

Treat symptomatically.

Product is expected to be non-toxic and only an eye irritant in the powder form. Treatment is recommended to be symptomatic and supportive. Other information: This media is classified by the manufacturer for health effects according to EU Directive 1999/45/EC with Xi; R36/37/38

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing media

As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or water spray. Alcohol resistant foams (ATC type) are preferred.

Unsuitable extinguishing media

Do not use water jet. Wet activated carbon depletes oxygen from the air. Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which may reach the lower explosive limit for carbon monoxide of 12.5% in air.

### 5.2 Special hazards arising from the substance or mixture

Oxidising

See above.

### 5.3 Advice for fire-fighters

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing. Do not breathe fumes. Further precautions noted above.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Small spillages:  
Oxidising

Ensure operatives are trained to minimize exposures. Protective clothing appropriate for the environment should be worn. Goggles or safety glasses with side shields, NIOSH approved dust masks, rubber or plastic gloves, and full cover clothing covering arms and legs are recommended. Avoid dust formation. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. In case of leakage, eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid exposure. Clean up spill immediately.  
Not an oxidizer.

6.2	<b>Environmental precautions</b>	Collect spillage. Avoid release to the environment. <a href="#">Click or tap here to enter text.</a>
6.3	<b>Methods and material for containment and cleaning up</b>	Clean up using dry procedures (broom, shovel, etc.); avoid dusting. Do not mix with combustible material. Product may be recovered for use if it has not come in contact with liquid, changed color, or been exposed to significant amounts of gaseous contaminants.
	Small spillages:	Sweep up spilled substance and remove to safe place. Avoid dust generation. Damp down to avoid dust generation.
6.4	<b>Reference to other sections</b>	See Also Section: 8, 13

## SECTION 7: HANDLING AND STORAGE

7.1	<b>Precautions for safe handling</b>	Ensure operatives are trained to minimize exposures. Use air conveying (vacuum) for bulk removal. If manual handling is used for transfer (from vessel, slingbags, boxes, or pails), use mechanical ventilation or other measures to remove airborne dust. Use personal protective equipment as required. See Section: 8. <b>Wear suitable protective clothing, gloves and eye/face protection.</b> <b>Prevention of Fire and Explosion: Contact with strong oxidizers may result in fire.</b> Avoid all contact. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Confined space entry. Appropriate safety precautions should be taken when entering any confined space. Entering containers or media vessels/tanks housing active carbon for may remove oxygen from the air causing severe hazards for workers entering such spaces. Before and entrance of a confined all local, state, and federal regulations should be followed. Avoid crushing the product to keep dusting to a minimum. As described under Handling above, mechanical ventilation or other measures may be needed to remove airborne dust. Protect from water exposure to contaminated air (gaseous, particulate, and aerosol contaminated), otherwise the product may be rendered useless. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
	Oxidising	Do not store near combustible materials. Not an oxidizer, but contact with strong oxidizers could intensify fire.
7.2	<b>Conditions for safe storage, including any incompatibilities</b>	Keep in closed container. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Control dust formation. Recommended to package in plastic-lined corrugated boxes, or in bulk sacks. Do not package in a porous material that allows contact to air, water, and contaminants.
	Storage temperature	Keep only in the original container/package in a cool well-ventilated place. Should be stored inside, away from rainwater, etc.
	Incompatible materials	Protect from moisture. Keep away from strong oxidizing substances. Product should be kept protected from water and exposure to contaminated air (gaseous, Particulate, and aerosol contaminated), otherwise the product may be rendered useless.
7.3	<b>Specific end use(s)</b>	See Section: 1.2

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	<b>Control parameters</b>	
8.1.1	<b>Occupational Exposure Limits</b>	<p>USA OSHA PEL- 5mg/m<sup>3</sup> respirable fraction, 15mg/m<sup>3</sup> total dust  Dust, or Particulates, Substance Not Otherwise Specified:</p> <p>Austria MAK: 10 mg/m<sup>3</sup>, STEL 2x30 min, Inhalable dust 5 mg/m<sup>3</sup>, TWA, Inhalable dust</p> <p>Belgium: 10 mg/m<sup>3</sup>, TWA, Inhalable 3 mg/m<sup>3</sup> TWA, Respirable</p> <p>Canada (Saskatchewan): 10 mg/m<sup>3</sup>, TWA, Inhalable 3 mg/m<sup>3</sup> TWA, Respirable</p> <p>China: 8 mg/m<sup>3</sup>, TWA 10 mg/m<sup>3</sup>, STEL</p> <p>France: 10 mg/m<sup>3</sup>, TWA Inhalable dust 5 mg/m<sup>3</sup>, TWA Respirable dust</p> <p>Germany - TRGS 900: 10 mg/m<sup>3</sup>, TWA, Inhalable 3 mg/m<sup>3</sup>, Respirable fraction Hong Kong: 10 mg/m<sup>3</sup>, TWA</p>

Ireland: 10 mg/m<sup>3</sup>, TWA, Total inhalable 4 mg/m<sup>3</sup>, TWA, Respirable  
 Italy: 10 mg/m<sup>3</sup>, TWA, Inhalable 3 mg/m<sup>3</sup>, TWA, Respirable  
 Japan: 3 mg/m<sup>3</sup> TWA, Respirable Product code: CI4 Product name:  
 NORITÒ CI4 Revision date: 29-Jul-2016  
 Malaysia: 10 mg/m<sup>3</sup>, TWA, Inhalable 3 mg/m<sup>3</sup>, TWA, Respirable  
 The Netherlands: 3.5 mg/m<sup>3</sup>, Inhalable  
 Spain: 10 mg/m<sup>3</sup>, VLA, Inhalable 3 mg/m<sup>3</sup>, VLA, Respirable  
 Sweden: 10 mg/m<sup>3</sup>, NGV, Total inhalable 5 mg/m<sup>3</sup>, NGV, Respirable  
 United Kingdom - WEL: 10 mg/m<sup>3</sup>, TWA, Total Inhalable dust 4 mg/m<sup>3</sup>,  
 TWA, Respirable dust US ACGIH - PNOS: 10 mg/m<sup>3</sup>, TWA, Inhalable 3  
 mg/m<sup>3</sup>, TWA, Respirable US OSHA - PEL: 15 mg/m<sup>3</sup>, TWA, Total dust  
 5 mg/m<sup>3</sup>, TWA, Respirable

<b>8.1.2</b>	<b>Biological limit value</b>	None Known
<b>8.1.3</b>	<b>PNECs and DNELs</b>	Not applicable.
<b>8.2</b>	<b>Exposure controls</b>	
<b>8.2.1</b>	<b>Appropriate engineering controls</b>	Ensure operatives are trained to minimize exposures. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Good hygiene practices and housekeeping measures. A washing facility/water for eye and skin cleaning purposes should be present. Preferably use engineering controls to keep exposures low. Minimize eye and skin contact by using appropriate protective equipment. Use local or general room ventilations to control airborne dust that may be generated.
<b>8.2.2</b>	<b>Individual protection measures, such as personal protective equipment (PPE)</b>	Use personal protective equipment as required. Wear suitable protective clothing, gloves and eye/face protection. Keep good industrial hygiene. Do not breathe dust. Avoid all contact. Wash hands before breaks and after work. Keep work clothes separately. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke at the work place.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Use eye protection according to EN 166, designed to protect against dusts.  
 Small Quantities: Not normally required

Skin protection



**Hand protection:**

Wear gloves to EN374 to protect against skin effects from powders.  
 Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

**Skin protection:** Wear suitable coveralls to prevent exposure to the skin.

Respiratory protection



Respiratory protective device with a particles filter

Thermal hazards

Exothermic reaction with: Reducing agent. Wear a Heat Protective Suit.

**8.2.3 Environmental Exposure Controls**

Prevent release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state	Solid Cylindrical Pellets
Colour	Black
Odor	No odor
Melting point/freezing point	Not applicable.
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Not flammable under normal conditions
Lower and upper explosion limit	Not explosive
Flash point	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
pH	6.9-9.0
Kinematic viscosity	Not applicable.
Solubility	insoluble
Partition coefficient: n-octanol/water (log value)	Not applicable.
Vapour pressure	1 at 3586 C (6487 F)
Density and/or relative density	No data available
Relative vapour density	Not applicable.
Particle characteristics	Median Particle Diameter 4mm

### 9.2 Other information

Oxidising properties	Not an oxidizer
Bulk density	0.641-0.721 g/cc (40-45 lbs/ft3)

## SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions
10.2	Chemical stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	Involvement in fire may release carbon monoxide and dioxide. <a href="#">Click or tap here to enter text.</a>
10.4	Conditions to avoid	Protect from moisture and damage. Keep in air tight container, as contaminated air can render product useless.
10.5	Incompatible materials	Strong oxidizing agents such as ozone, liquid oxygen, chlorine, permanganate.
10.6	Hazardous decomposition product(s)	Hazardous combustion products: Potassium Oxide, Manganese, oxides of manganese

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity - Ingestion

Mixture: Based on available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: LD50 > 10000 mg/kg bw/day

[Click or tap here to enter text.](#)

#### Acute toxicity - Inhalation

Mixture: Based on available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: LC50 > 100 ml/l

#### Acute toxicity - Skin Contact

Mixture: Based on available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: LD50 > 10000 mg/kg bw/day

#### Skin corrosion/irritation

Mixture: Skin. Irr 2- H315: causes skin irritation

#### Serious eye damage/irritation

Mixture: Eye. Irr- H319 and H320: Causes eye irritation

[Click or tap here to enter text.](#)

#### Respiratory or skin sensitization

Mixture: Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Mixture: Based on available data, the classification criteria are not met.

#### Carcinogenicity

Mixture: Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Mixture: Based on available data, the classification criteria are not met.

[Click or tap here to enter text.](#)

#### STOT - single exposure

Mixture: Based on available data, the classification criteria are not met.

#### STOT - repeated exposure

Mixture: Based on available data, the classification criteria are not met.

**Aspiration hazard**

Mixture: Not relevant – solid mixture

**11.2 Information on other hazards****11.2.1** Endocrine disrupting properties

No substances identified as having endocrine-disrupting properties.

**11.2.2** Other information

No data available

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

No data available. No known toxicity concerns.

Click or tap here to enter text. No experimental data available.

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Endocrine disrupting properties**

No substances identified as having endocrine-disrupting properties.

**12.7 Other adverse effects**

None Known

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Hazardous waste according to Directive 2008/98/EC (waste framework directive).  
 Dispose of wastes in an approved waste disposal facility. Sulphasorb XL converts hydrogen sulfide into elemental sulfur, thereby eliminating the acidic aspect. Because of this, Sulphasorb XL does not typically have restrictions on disposal. Consult your local disposal requirements.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number or ID number****ADR/RID/DOT**

None

**IMDG**

None

**IATA/ICAO**

None

**14.2 UN proper shipping name**

Activated Carbon

Activated Carbon

Activated Carbon

**14.3 Transport hazard class(es)**

None

None

None

**14.4 Packing group**

None

None

No

**14.5 Environmental hazards**

No

No

No

**14.6 Special precautions for user**

None Known

None Known

None Known

**14.7 Maritime transport in bulk according to IMO instruments**

**International Regulations:** The media contains less than 50% (by weight) activated carbon, which is produced by a steam activation process. Because of this the media is not subject to the provisions of the International Dangerous Goods Code (IMDG) or the labeling and packaging requirements of the International Maritime Organization (IMO) Class 4.2.

**14.8 Additional Information**

NMFC 40560 Activated Carbon, Purifying

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture (USA)**

SARA Title III (Superfund Amendments and Reauthorization Act)- **Section 312 Hazard Categories (40CFR370.2):** Only expected as Acute (eye irritant), see section 11 TOXICOLOGICAL INFORMATION.

**15.1.1 EU regulations**

Authorisations and/or Restrictions On Use

Not restricted for the intended use(s) of the product. Just note for classifications and labelling that it is an Xi- Irritant  
 NA

CoRAP Substance Evaluation

**15.1.2 Other National regulations**

USA

See 15.1 above. Otherwise, no known.

California Proposition 65- product does not contain known substances to cause cancer or reproductive harm.

**15.2 Chemical Safety Assessment**

A chemical safety assessment is not required under REACH.



## SECTION 16: OTHER INFORMATION

**The following sections contain revisions or new statements:** Updated substance / mixture classification. Updated version and date. New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

**References:** Existing Safety Data Sheet (SDS) Substance with harmonized classification and labelling according to Regulation (EC) No. 1272/2008, Annex VI. Existing ECHA registration for carbon and magnesium oxide.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture according to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Skin Irr 2: H315	Calculation method
Eye Irr 2: H319 and H320	Calculation method

### LEGEND

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CoRAP	Community Rolling Action Plan (CoRAP)
DNEL	Derived no effect level
EC50	Half maximal effective concentration
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long term exposure limit
OEL	Occupational exposure limits
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

### Hazard classification / Classification code:

Skin Irr 2  
Eye Irr 2

### Hazard Statement(s)

H315: Causes skin irritation  
H319 and H320- causes eye irritation

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

### Disclaimers

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# Sulphasorb XL™ Adsorbent Media



## Basic Information:

- Sulphasorb XL™ was developed to provide our customers with the highest extended life.
- Sulphasorb XL™ has a capacity for capturing hydrogen sulfide (H<sub>2</sub>S), which is two to three times higher than other products in the market. PureAir does not impregnate this carbon.
- Sulphasorb XL™ performs exceptionally well not only in PureAir scrubbers, but also as replacement media in scrubbers manufactured by other companies.



General Description	Product Specifications	Removal Capability
Porous, 4 mm cylindrical pellets of high grade activated carbon. Sulphasorb XL™ is a catalytic type of engineered carbon that targets hydrogen sulfide.	<ul style="list-style-type: none"><li>• Particle Size: 4mm diameter cylinder</li><li>• Density: 480 kg/m<sup>3</sup> (30 lbs/ft<sup>3</sup>)</li><li>• Surface Area: 1100 m<sup>2</sup>/g</li><li>• Typical Moisture Content %: 5%</li><li>• Crush Test: 97 lbs</li><li>• Abrasion Loss %: 3% maximum</li><li>• Relative Pressure Drop: See Curve C*</li><li>• Ignition Temperature: &gt;400° C</li><li>• CTC Value: 70%</li><li>• Iodine #: 1100 mg/g</li><li>• Ash Content: 5% maximum</li><li>• Butane Activity: 27% minimum</li></ul> <p>*See Curves Details at <a href="http://pureairfiltration.com/curves/">pureairfiltration.com/curves/</a></p>	<ul style="list-style-type: none"><li>• Hydrogen Sulfide: approximately 66% by weight</li></ul>

+1 678.935.1431

Toll Free: 866.543.7479

[www.PureAirFiltration.com](http://www.PureAirFiltration.com)

6050 Peachtree Pkwy, Suite 240-187, Atlanta, GA 30092 U.S.A.





YOUR WORLD LEADER IN THE REMOVAL OF GASES, ODORS, & VAPORS

PureAir AC, AC-X, AC-C, AC-G

Revision Date: *June, 2020*

## SAFETY DATA SHEET

### **1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY**

**Product Identification:** PureAir AC, AC-X, AC-C, AC-G

**Product Synonyms:** Activated Carbon

**Use of the preparation:** This product is intended for use in gas-phase air filtration

**Company Identification:**

Pure Air Filtration  
6050 Peachtree Parkway  
Suite 240-187  
Norcross, GA 30092

**Company Contact Numbers:**

Telephone: (678) 935-1431  
Facsimile: (678) 935-0648



## 2. HAZARD(S) IDENTIFICATION

Irritant, Category 2

GHS Hazard Codes: H315: Causes Skin Irritation

GHS Precaution Codes: P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Codes: P302+352: IF ON SKIN: wash with plenty of soap and water.  
P332+313: IF SKIN irritation occurs: Get medical advice/attention.  
P362: Take off contaminated clothing and wash before reuse.

GHS Storage Codes: P401: Store in a cool, dry area in enclosed containers.



### **Most Important Hazards:**

-If crushed or handled extensively, dust may evolve and can be irritating to the eyes, skin or respiratory tract.

-Confined space entry. Appropriate safety precautions should be taken when entering any confined space. Entering containers or media vessel/tanks housing activated carbon for inspection, maintenance, etc. may constitute a confined space entry. In confined spaces, activated carbon may remove oxygen from the air causing severe hazards for workers entering such spaces. Before and during the entrance of a confined space all local, state, and federal regulations should be followed.

### **Adverse Human Health Effects:**

—The following medical conditions may be aggravated by exposure to the product: asthma, chronic lung disease, and skin rashes.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms: Activated Carbon

Formula: C

Chemical Family: Activated Carbon

CAS Number: 7740-44-0

<u>Common Chemical Name</u>	<u>Synonyms</u>	<u>CAS#</u>	<u>Wt%</u>	<u>EC #</u>	<u>EU</u>
Carbon	activated carbon	7440-44-0	91-95%	231-153-3	

## 4. FIRST-AID MEASURES

First aid measures should be taken as indicated below for the following routes of exposure.

**Inhalation:** Move to fresh air. If breathing difficulty occurs or persists, seek medical attention.

**Skin Contact:** Wash area with soap and water. If irritated persists, seek medical attention.

**Eye Contact:** Flush with large quantities of water for 15 min. Seek medical attention.

**Ingestion:** Seek medical attention.

**Notes to Physician:**

Product is expected to be non-toxic and only an eye irritant in the powder form. Treatment is recommended to be symptomatic and supportive.

**Other Information:**

This media is classified by the manufacturer for health effects according to EU Directive 1999/45/EC with Xi; R36/37/38

## **5. FIRE-FIGHTING MEASURES**

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Wet activated carbon depletes oxygen from the air. Materials allowed to smolder for long periods in enclosed spaces, may produce amounts of carbon monoxide which may reach the lower explosive limit for carbon monoxide of 12.5% in air. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.

**Suitable Extinguishing Media:**

If involved in a fire, flood with plenty of water, dry chemicals, alcohol foam or carbon dioxide.

**Specific Hazards:**

- High airborne concentrations of dust may pose an explosion hazard
- Carbon monoxide and oxides of phosphorous may be generated in the event of a fire

**Protection of Firefighters:**

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Protective clothing appropriate for the environment should be worn. Goggles or safety glasses with side shields, NIOSH approved dust masks, rubber or plastic gloves, and full cover clothing covering arms and legs are recommended.

**Environmental Precautions:**

None known

**Methods for Cleaning Up:**

Clean up using dry procedures (broom, shovel, etc.); avoid dusting.

**Recovery:**

Product may be recovered for use if it has not come in contact with liquid, changed color, or been exposed to significant amounts of gaseous contaminants.

**Disposal:**

See Section 13: DISPOSAL CONSIDERATIONS

## **7. HANDLING AND STORAGE**

### **Handling:**

Use air conveying (vacuum) for bulk removal. If manual handling is used for transfer (from vessel, slingbags, boxes, or pails), use mechanical ventilation or other measures to remove airborne dust.

**Prevention of User Exposure:** See section 8

### **Prevention of Fire and Explosion:**

Contact with strong oxidizers may result in fire.

### **Precautions for Safe Handling:**

- Confined space entry. Appropriate safety precautions should be taken when entering any confined space. Entering containers or media vessels/tanks housing active carbon for inspection, maintenance, etc. may constitute a confined space entry. In confined spaces, activated carbon may remove oxygen from the air causing severe hazards for workers entering such spaces. Before and entrance of a confined all local, state, and federal regulations should be followed.
- Avoid crushing the product to keep dusting to a minimum. As described under Handling above, mechanical ventilation or other measures may be needed to remove airborne dust.
- Protect from water exposure to contaminated air (gaseous, particulate, and aerosol contaminated), otherwise the product may be rendered useless.

### **Storage:**

General good storage practices should be followed.

### **Suitable Conditions:**

Store in a cool, dry area and keep in original, closed containers.

### **Incompatible Products:**

- Product should be kept protected from water and exposure to contaminated air (gaseous, Particulate, and aerosol contaminated), otherwise the product may be rendered useless.
- Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganates, peroxides, etc. may result in fire.

### **Recommended Packaging Materials:**

- Corrugated boxes of 50 lb, double wall quality, with 4 mm plastic liners.
- Injection molded polystyrene pails and lids including a neoprene seal.

### **Not Suitable Materials:**

Porous materials allowing contact with water, air, and the contaminants contained therein.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Exposure Limit Values:**

Inert or Nuisance Dust	5mg/m3 respirable fraction	OSHA PEL
	15 mg/m3 total dust	OSHA PEL

### **Exposure Controls:**

Minimize eye and skin contact by using appropriate protective equipment. Use local or general room ventilations to control airborne dust that may be generated.

### **Personal Protective Equipment:**

The following recommendations are made for appropriate personal protective equipment for the following.

<b>Respiratory Protection:</b>	NIOSH approved dust mask
<b>Hand Protection:</b>	Rubber or plastic gloves



**Eye Protection:** Goggles or safety glasses with side shields  
**Skin and Body Protection:** Full cover clothing covering arms and legs.  
**Hygiene Measures:** Do not inhale dust and avoid contact with eyes.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Solid  
**Form:** cylindrical pellets approximately 4mm (1/8 in. nominal) in diameter  
**Color:** Black  
**Odor:** No significant odor

### **Health, Safety, Environmental Information**

**pH:** 5.0-10.0  
**Flash point:** Not applicable  
**Flammability:** Not flammable under normal conditions  
**Explosive properties:** Not explosive  
**Oxidizing properties:** Not an oxidizer  
**Vapor pressure:** 1@ 3586C (6487F)  
**Bulk density:** 0.641-0.721 g/cc (40-45lb/ft<sup>3</sup>)  
**Solubility:** insoluble in water.  
**Partition coefficient:** Not applicable  
**Viscosity:** Not applicable  
**Vapor density (Air=1):** 0.4  
**Evaporation rate:** No information found.

## **10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions

### **Materials to Avoid:**

Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc may result in rapid combustion. Avoid contact with strong acids.

### **Conditions to Avoid:**

Protect from water and exposure to contaminated air, otherwise media may be rendered useless.

### **Hazardous Decomposition Products:**

Involvement in a fire causes formation of carbon dioxide and carbon monoxide.

### **Intended Use and Foreseeable Misuse:**

Intended use is for air purification from gaseous contaminants. The product is not intended to remove dangerous particulates or biological contaminants. The product is not intended to purify water.

## **11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** Expected to be low[2], not tested

**Local Effects:** See section 3. **HAZARDS IDENTIFICATION, Adverse Human Health Effects.**

**Sensitization:**

**Primary skin irritation and corrosivity (rabbits):** expected to be non-irritant, not tested

**Eye irritation (rabbits):** expected to be irritant not tested

**Primary Route of Entry:** Inhalation, ingestion, skin contact, eye contact

## **12. ECOLOGICAL INFORMATION**

Not determined. See Section 3. "HAZARDS IDENTIFICATION, Environmental Effects".

## **13. DISPOSAL CONSIDERATIONS**

**Waste From Residues:**

Spent media that has removed toxic chemicals should be examined for specific hazards. Local regulations should always be consulted and followed.

**Contaminated Packaging:** Not relevant

## **14. TRANSPORT INFORMATION**

**International Regulations:** not applicable

**Proper Shipping Name:** NMFC 40560 Activated Carbon, Purifying

## **15. REGULATORY INFORMATION**

**Regulations:**

This section contains information specifically applicable to the chemical product relative to the following regulations. Local regulations should always be consulted and followed.

**SARA Title III (Superfund Amendments and Reauthorization Act)**

**Section 302 Extremely Hazardous Substances (40CFR355):**

Not listed

**Section 312 Hazard Categories (40CFR370.2):**

Only expected as Acute (eye irritant), see section 11 TOXICOLOGICAL INFORMATION.

**Section 313 Reportable Ingredients (40CFR372):**

None listed

**EU Classifications & Labeling:**



Xi – Irritant

**Risk Phrases:**

R36/37/38: Irritating to eyes, respiratory system and skin

**Safety Phrases:**

- S3: Keep in cool Place.  
S8: Keep container dry.  
S24/25: Avoid contact with skin and eyes.  
S26: In case of contact with, eyes, rinse immediately with plenty of water and seek medical advice  
S28: After contact with skin, wash immediately with plenty of soap and water.  
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  
S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

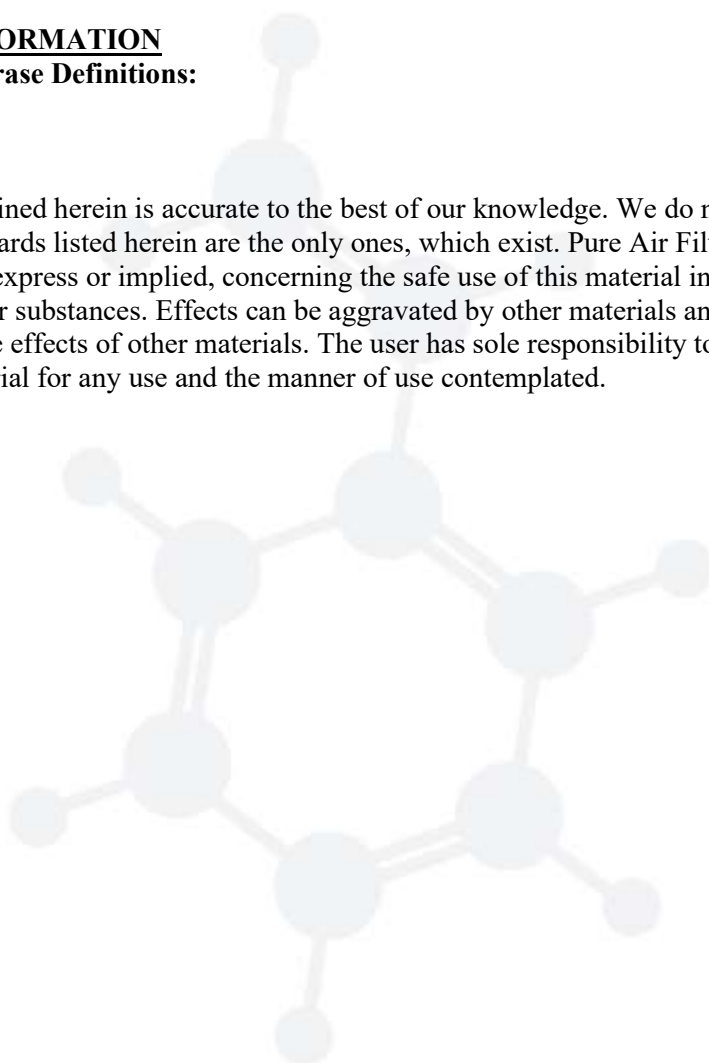
## **16. OTHER INFORMATION**

### **Ingredient R(isk) Phrase Definitions:**

None

### **Disclaimer:**

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones, which exist. Pure Air Filtration, LLC makes no warrants of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. The user has sole responsibility to determine the suitability of the material for any use and the manner of use contemplated.



# Activated Carbon Adsorbent Media



## Basic Information:

- Activated carbons are one of the most cost-effective methods of gas removal.
- Many types of activated carbons are available.
- Activated carbon is used for purifying air and water because it acts as an adsorbent, and can effectively remove particles and organics from water and odors from the air.
- One of the best materials for reducing risks to human health, it is also aesthetically pleasing.
- Each activated carbon has its own specific benefit.
- Unless specified otherwise, PureAir provides AC-X type carbon as a standard.

**CAUTION: WET ACTIVATED CARBON DEPLETES OXYGEN FROM AIR** - Whenever workers enter a vessel containing carbon, all precautions must be taken since dangerously low levels of oxygen may be encountered. Atmosphere sampling and work procedures for potentially low oxygen areas should be followed.

## Product Specifications:

- Density: 480 kg/m<sup>3</sup>
- Surface Area: 1100 m<sup>2</sup>/g
- Typical Moisture Content %: 5%
- Crush Test: 95 lbs
- Abrasion Loss %: 3% maximum
- Relative Pressure Drop: See Curve C/D\*
- Ignition Temperature: 425 °C minimum
- CTC Value: 70%
- Iodine #: 1100 mg/g
- Ash Content: 5% maximum
- Butane Activity: 27% minimum

\*See Curves Details at [pureairfiltration.com/curves/](http://pureairfiltration.com/curves/)

**AC-X**



**AC-C**



## General Description and Capacities:

### AC-X- Extruded Activated Carbon:

Because of its shape, performance and low cost, extruded carbon has become the standard over the past decade. PureAir carbon is a low dust, high-activity level, economical choice.

Shape: 4 mm diameter cylinder

### AC-C- Coconut Shell Carbon:

Produced from the shell of coconuts, this carbon is considered the finest in the world for air purification because the coconut shell forms pores that are just the right size to capture many gases and odors. Coconut shell carbon has a higher pressure drop (1.8" per foot at 70 fpm). Shape: 3 x 8 mesh

### Removal Capability of Both Products:

- Nitric Dioxide Removal Capacity – 6.6% by weight
- Chlorine Removal Capacity – 10% by weight
- Dichloroethane Removal Capacity – 20% by weight



September 11, 2024

**RE: Notice of WOSB Certification Granted**

Margaret Jameson  
PURE AIR FILTRATION, LLC  
2905 Amwiler Rd NW  
Ste E  
Atlanta, GA 30360

Dear Margaret Jameson:

Congratulations! It is the decision of the Greater Women's Business Council to grant WOSB certification to PURE AIR FILTRATION, LLC. You may now log into WBENCLink to download a copy of your new WOSB certificate using the directions below.

To download your WBENC WOSB certificate:

- Go to <https://gwbc.wbenclink.org>
- Log into your account with your username and password
- On the left navigation menu, click View >> My Certifications
- Under the "Current Certifications" section, click on "View" next to the Women-Owned Small Business (WOSB) certification
- Click "View as PDF" at the bottom of the page under the "Letters & Certificates" section

In addition to being granted WOSB certification by WBENC, you must take the following SBA required steps to participate in the WOSB Federal Contracting (Set Aside) Program. Visit <https://www.wbenc.org/certification/wosb-certification/wosb-set-asides-eligibility> to determine if you are eligible:

1. Represent status in System for Award Management (SAM) as WOSB\*
2. Complete the steps below that apply.
  - a. **New WOSB Applicants**
    - i. Scroll down and click on Get Started
    - ii. Click Create Account
    - iii. You will be redirected to SBA Connect site via Login.gov
    - iv. Click Create an account (or login) and follow the prompts to claim your business then submit an application and upload your WBENC-issued WOSB certificate.
      1. If an account already exists, select the option to 'Claim your business at WOSB.Certify'
    - v. Once your certification is confirmed, you will receive a formal confirmation from the SBA.
  - b. **Returning WOSB Applicants**
    - i. Companies granted the WOSB Certification through WBENC must return to the <https://wosb.certify.sba.gov> before the date listed as the SBA WOSB Expiration on the WBENC WOSB Certificate to update the company's information and provide the most recent WBENC WOSB certificate issued.
    - ii. This process should be completed within 30 days of the company's expiration date.

**NOTE:** The expiration date on your WOSB certificate corresponds to the expiration date on your current WBENC WBE certificate. To ensure that both remain current in WBENCLink, please submit your recertification application for both certificates no less than ninety (90) days prior to the expiration date. **The SBA grants a three-year WOSB certification. Please ensure you are following the steps that apply, either as a New or Returning WOSB Applicant.**

**\*If not eligible to participate in the set aside program, only Step 1 needs to be completed. For additional assistance with the SBA site, please submit a support ticket at <https://wosb.certify.sba.gov/help-csh>.**

WBENC is committed to providing opportunities and resources to assist in the success of your business. We invite you to visit our website at <https://wbenc.wbenclink.org> to access a listing of educational webinars offered, and additional relevant information.

Sincerely,

A handwritten signature in black ink, appearing to read "Roz Lewis". The signature is fluid and cursive, with a large initial "R" and a long, sweeping underline.

Roz Lewis  
President & CEO  
Greater Women's Business Council





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**PureAir Municipal Media Customers Reference List**

End-User Name	Media Type	Year Sold	Customer Contact	City, State
City of Sacramento	Sulphasorb XL, CPS12 Blend	2014, 2015, 2019, 2020, 2024	Jarome Rabang: rabangj@sacsewer.com	Sacramento, CA
City of Ventura	Sulphasorb XL, CPS12 Blend	2022, 2024	John Willis: jwillis@cityofventura.ca.gov	Ventura, CA
City of Burlington	Sulphasorb XL, CPS12 Blend	2016, 2019, 2020, 2021, 2022, 2023, 2024, 2025	Sidney Lease: Sidneyl@burlingtonwa.gov	Burlington, WA
Orange County	Sulphasorb XL, PureAir 8	2009, 2020, 2024, 2025	Bill Salyers: bill.salyers@ocfl.net	Orlando, FL



hereby grants

# National Women's Business Enterprise Certification

to

PURE AIR FILTRATION, LLC

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE).  
This certification affirms the business is woman-owned, operated and controlled and is valid through the date herein.

Certification Granted: September 6, 2024

Expiration Date: September 30, 2025

WBENC National Certification Number: WBE2402935

WBENC National WBE Certification was processed and validated by Greater Women's Business Council, a WBENC Regional Partner Organization.

Authorized by Roz Lewis, President & CEO  
Women's Business Center



NAICS: 333413  
UNSPSC: 73181000

