

September 8, 2015

Jefferson Parish, LA
General Government Building
Purchasing Dept – Suite 4400
200 Derbigny Street
Gretna, LA 70053

RE: Bid No.: 50-00114227 – Bulk Chemicals - Water
Due: September 10th, 2015 @ 2pm

To Whom It May Concern,

Thank you for the opportunity to bid on your requirements for powdered activated carbon. Cabot Norit Americas Inc. offers its HYDRODARCO® W powdered activated carbon for use in your potable water system. Our price will be held firm for the term of our agreement.

Enclosed is our Product Datasheet that describes specifications and lists typical properties of HYDRODARCO® W. This product complies with AWWA B600 guidelines and is certified under ANSI/NSF Standard 61. HYDRODARCO® W is manufactured by Cabot Norit Americas in Marshall, Texas from domestically mined lignite coal and Cabot Norit Americas' manufacturing facilities are ISO 9001:2000 Quality Certified.

I kindly request a copy of the bid tabulation when they become available. You may send them to my attention, along with all bid / contract correspondence. Please contact me at 903.923.1046 if I can be of assistance. We look forward to an opportunity to serve your activated carbon needs.

Sincerely,

Cabot Norit Americas Inc.



Amber Lewis
Inside Sales Assistant
Amber.lewis@cabotcorp.com
Phone: 903.923.1046
Fax: 903.923.1035

Enclosures: Complete Bid Form
Product Datasheet
Secretary's Certificate

Material Safety Datasheet
NSF Certification
Affidavit(s) of Compliance



Bid Number 50 – 00114227

**TWO (2) YEAR CONTRACT FOR VARIOUS CHEMICALS FOR THE
JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS – WATER**

BID DUE: THURSDAY, SEPTEMBER 10, 2015 AT 2:00 PM

ATTENTION VENDORS!!!

**Please review all pages and respond accordingly, complying with all provisions
in the technical specifications and Jefferson Parish Instructions for Bidders and
General Terms and Conditions. All bids must be received in the Purchasing
Department by the bid due date and time.**

**Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053**

**Buyer Name: Misty A. Camardelle
Buyer Email: mcamardelle@jeffparish.net
Buyer Phone: 504-364-2683**

Two (2) Year Contract for Various Chemicals for the Jefferson Parish Department of Public Works - Water

BID SPECIFICATIONS FOR CHEMICALS

Liquid Ammonia, Zinc Sodium Hexametaphosphate, Bulk Polydadmec Polyelectrolyte Clarifloc, Ammonium Hydroxide Solution, Powdered Activated Carbon, & Liquid Chlorine, Fluorosilicic Acid, And Liquid Aluminum Sulfate

Specifications for Line # 0010 (Bulk Liquid Ammonia)

- A. The Liquid Ammonia must be certified for use in drinking water under National Sanitation Foundation Standard 60.
- B. The vendor must provide for the transfer of the Bulk Liquid Ammonia via his own hoses and truck mounted transfer pump. Vendor's hose connections must be compatible with the 1-1/4 inch acme adaptor on our tanks. Vendors must verify compatibility of their hose connections with our tanks before bidding (Contact Plant Superintendents at 504-838-4398 for Eastbank and 504-349-5085 for Westbank). The Ammonia will be placed into the storage tanks at each waterworks location by the delivery driver and will be supervised by the appropriate waterworks personnel.
- C. The Ammonia vendor shall provide an Annual Ammonia Safety Training Program at each waterworks facility as part of the contract obligation at no additional charge.

Specifications for Line #0020 (Zinc Sodium Hexametaphosphate)

- A. The Zinc Sodium Hexametaphosphate bid must be equivalent to Virginia Chemical Vir Chem 937, Shannon Chemical Shan-No-Cor, or Calgon C-8 Or C-9, containing no less than 65% as Phosphate and 6.5% as Zinc; must be a free-flowing granular material sized such that at least 75% will pass a 10 mesh sieve and will be retained on a 80 mesh sieve; and must be soluble up to 3 lb/gal of cold tap water and remain free of precipitates for at least 5 days after preparation. Products requiring hot water for solution preparation are not acceptable.
- B. The Zinc Sodium Hexametaphosphate must be certified for use in drinking water under National Sanitation Foundation Standard 60.
- C. A technical information sheet indicating the percent composition of active ingredients must accompany each bid. The bid award will be based upon the lowest price per ton of the primary active ingredient, Metaphosphate (P205).

- D. The Zinc Sodium Hexametaphosphate must be supplied in 50 lb pails which are properly palletized on wooden pallets such that unloading can be promptly accomplished by waterworks personnel using their forklift.
-

Specifications for Line #0030 (Bulk Polydadmac Polyelectrolyte Clarifloc C-308p)

- A. The Polydadmac (Polydiallyldimethylammonium Chloride) bid must be one of the following:
- a. Polydyne C-308P, Cytec Industries 587-C, Chemlink per Chem 550, Nalco 8792, G.S. Robin 120, CPS Chemical Agefloc Wt-20hv, Callaway Chemical Jay Floc 842, Citichem Chemfloc 615, or Calgon Cat-Floc T, T2, L or LS.
- B. The Polydadmac shall have a specific gravity of 1.03 - 1.05 g/ml, a viscosity less than 300 cps at 25 degrees, a shelf life of 12-24 months, and freezing point of minus 5 degrees C.
- C. The Polydadmac must meet the requirements of the latest version of American Water Works Association Standard B451 and must be certified for use in drinking water under National Sanitation Foundation Standard 60 to a dosage of 10 mg/L.
- D. Each vendor must bid only one Polydadmac product, clearly indicating the product name on the bid. A technical information sheet on the product bid award will be based upon the lowest price per ton of active ingredient.
- E. Shippers must provide the necessary properly sized equipment to quickly unload their product into the designated storage tanks at the delivery site.
-

Specifications for Line #0040 (Ammonium Hydroxide Solution)

- A. The 29.4% Ammonium Hydroxide Solution must be certified for use in drinking water Under National Sanitation Foundation Standard 60.
- B. The bid price of the Ammonium Hydroxide shall include any and all fees associated with drum return, such as environmental or cleaning fee.
- C. Shippers must provide necessary properly sized equipment to quickly unload their product at the delivery site.
-

Specifications for Line #0050 (Bulk Powdered Activated Carbon for Broad Spectrum)

- A. The Powdered Activated Carbon must meet the requirements of the latest version of American Water Works Association Standard B600, must have a Phenol value of 1.8 - 3.2 g/L, and must be certified for use in drinking water under National Sanitation Foundation Standard 60.
 - B. Each vendor must bid only one PAC product, clearly indicating the product name on the bid. A technical information sheet on the product bid must accompany the bid.
 - C. Shippers must provide the necessary properly sized equipment to quickly unload their product into the designated storage tanks at the delivery site.
-

Specifications for Lines #0060 & #0070 (Liquid Chlorine)

- A. The Liquid Chlorine must meet the requirements of the latest version of American Water Works Association Standard B301 and must be certified for use in drinking water under National Sanitation Foundation Standard 60.
 - B. A comprehensive Quality Tracking Program (QTP) must be submitted by the supplier with the bid proposal and annually thereafter. The QTP must address the required Chlorine purity specifications and include documentation and reporting protocols to insure Chlorine Cylinder Integrity.
 - C. Chlorine Cylinder Valves must be properly aligned and the valve threads must be in good condition upon receipt. Otherwise the cylinder will be rejected and returned to the vendor.
 - D. The Chlorine vendor shall provide an Annual Chlorine Safety Training Program at each waterworks facility as part of the contract obligation at no additional charge.
 - E. Shippers must provide the necessary equipment to quickly unload one ton cylinders at the delivery site and pick up empty cylinders. Any cost associated with the pickup and return of empty cylinders shall be included in the bid price.
-

Specifications for Item #0080 (Fluorosilicic Acid)

- A. The Fluorosilicic Acid must meet the requirements of the latest version of American Water Works Association Standard B703 and must be certified for use in drinking water under National Sanitation Foundation Standard 60.
- B. The bid price of the Fluorosilicic Acid shall be made on a 100% dry basis such that a shipment of 25% Fluorosilicic Acid shall be paid at a rate of 25% of the bid price. A

certified analysis indicating the percentage Fluorosilicic Acid must accompany each shipment.

- C. Shippers must provide the necessary properly sized equipment to quickly unload their product into the designated storage tanks at the delivery site.
- D. In the event that any commodity sought in this bid is the subject of a nationwide product shortage which can be verified by Jefferson Parish, then Jefferson Parish will agree to suspend the obligation of the vendor to supply that commodity during any period of its unavailability. Price is based on 100 % acidity adjusted basis and 20 ton minimum releases.

Specifications for Item #0090 (Liquid Aluminum Sulfate)

- A. The Liquid Aluminum Sulfate must be approximately 48.5% by weight dry Aluminum Sulfate ($AL_2(SO_4)_3 \cdot 14H_2O$, MW=594) and meet the requirements of the latest version Of American Water Works Association Standard B403, and must be certified for use in drinking water under National Sanitation Foundation Standard 60.
 - B. The bid price of the Liquid Aluminum Sulfate shall be made on a 100% dry basis such that a shipment of 48.5% Liquid Aluminum Sulfate shall be paid at a rate of 48.5% of the bid price. A certified analysis indicating the percentage must accompany each shipment.
 - C. Shippers must provide the necessary properly sized equipment to quickly unload their product into the designated storage tanks at the delivery site.
-

Water Department Chemical Bid quantities

0001 Bulk Liquid Ammonia delivered freight prepaid in 2 or 3 ton shipments to both the Eastbank and the Westbank Water treatment plants as required .

220 tons

0002 Zinc Sodium Hexametaphosphate delivered freight prepaid in 20 ton shipments to both the Eastbank and the Westbank Water treatment plants as required .

120 tons

0003 Bulk PolyDADMAC Polyelectrolyte delivered freight prepaid in 20 ton shipments to both the Eastbank and the Westbank Water treatment plants as required .

1300 tons

0004 Ammonium Hydroxide Solution, 29.4%, in 55 gal drums delivered freight prepaid in 10 drum shipments to 171A Birch Lane, Grand Isle, LA 70358 as required .

90 drums

0005 Bulk Powdered Activated Carbon for broad spectrum organics removal delivered freight prepaid in 20 ton shipments to both the Eastbank and the Westbank Water treatment plants as required .

400 tons

0006 Liquid Chlorine in one ton cylinders delivered freight prepaid in 20 ton shipments to both the Eastbank and the Westbank Water treatment plants as required .

1300 tons

0007 Liquid Chlorine in 150 pound cylinders delivered in **1500 lb shipments** freight prepaid to West Jefferson Waterworks 171A Birch Lane, Grand Isle, LA 70358 as required

30,000 pounds

0008 Bulk Fluorosilicic Acid bid on a 100% dry basis delivered freight prepaid in 20 ton shipments to both the Eastbank and the Westbank Water treatment plants as required .

140 tons

0009 Bulk Liquid Aluminum Sulfate bid on a 100% dry basis delivered freight prepaid in 20 ton shipments to both the Eastbank and the Westbank Water treatment plants as required .

3100 tons

DATE: 8/26/2015

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00114227

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

BUYER: MCamardelle@jeffparish.net

BIDS WILL BE RECEIVED IN THE PURCHASING DEPARTMENT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 9/10/2015 AND PUBLICLY OPENED THEREAFTER.

LATE BIDS WILL NOT BE ACCEPTED

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

All vendors submitting bids must register as a Jefferson Parish vendor if not already yet registered. Bidders may be required to furnish current W-9 Forms and respective Tax Identification Numbers within 10 days after bid opening if such information is not on file or not up to date. Registration forms may be downloaded from www.purchasing.jeffparish.net and clicking on Vendor Information.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

If the bid exceeds \$30,000.00 and the company is duly authorized to do business in the state of Louisiana, a corporate resolution must be submitted with the bid or the person signing the bid documents must be listed on the Louisiana Secretary of State's website as an officer of the corporation, unless bidder has otherwise complied with LSA-R.S. 38:2212(B)(5). If the bid is in excess of \$30,000 and bidder is registered out of the state of Louisiana, a corporate resolution must be submitted with the bid, unless bidder has otherwise complied with LSA-R.S. 38:2212(B)(5). Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. Bids submitted by Owner or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. Sole proprietors submitting bids for public works projects shall within 10 days after bid opening submit sole proprietorship certification.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. IN THE EVENT OF SPLIT AWARD, THE PURCHASING DEPARTMENT MAY CONTACT VENDORS TO REQUEST REQUIRED AFFIDAVITS. THOSE VENDORS WILL HAVE 10 DAYS FROM THE DATE OF NOTICE TO SUBMIT COMPLETE, SIGNED AND NOTARIZED AFFIDAVITS IN ORIGINAL FORMATS.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

Preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA-R.S.38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This Electronic Procurement System allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Please note requirements contained in this bid package for electronic bid submission.

Please visit the Purchasing Department webpage at <http://purchasing.jeffparish.net> to register and review Jefferson Parish solicitations.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

ADDITIONAL REQUIREMENTS FOR THIS BID

**PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE
CORRESPONDING INSTRUCTIONS BELOW.**

5, 10, 12, 13, 15

1. All bidders must attend the pre-bid conference in relation to this bid; attendance is mandatory. Failure to attend will prohibit a company from submitting a bid. Vendors arriving after the mandatory pre-bid conference begins will not be allowed to sign in as evidence of attendance.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.
7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicted on the attached sheet. The current certificate of insurance must be submitted by low bidder within 10 days after bid opening to the Purchasing Department. Failure to comply will cause bid to be rejected. JEFFERSON PARISH reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required; Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit and E-Verify Affidavit must be completed, signed, notarized and submitted by low bidder within 10 days after bid opening to the Purchasing Department on all solicitations for construction, alteration or demolition of public building or project, including but not limited to requirements found in LSA-RS 38:2212.9; LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1. Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format for the bid to be considered responsive.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits (in Original Format) required; Non-Collusion Affidavit, and Campaign Contribution Affidavit must be completed, signed, notarized and submitted by low bidder with bid submission within 10 days after bid opening to the Purchasing Department. See LSA-RS 38:2212.10; LSA-RS 38:2224; Code of Ordinances, Jefferson Parish, Louisiana, Sec 2-923.1 Failure to comply will cause bid to be rejected; the Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event. For the convenience of vendors, all affidavits have been combined into one form entitled NON-PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format for the bid to be considered responsive.
16. Since a bid surety is required, bid response may not be faxed. Bid submission will only be accepted online or as delivered to the Purchasing Department, 200 Derbigny Street, Suite 4400, Gretna, LA 70053 by 11am on the bid due date. All sureties must be in original format (no copies).

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO ✓MAXIMUM ESCALATION PERCENTAGE REQUESTED 0 %

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF _____

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

as needed 4-7 days AROLOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) n/a**THIS SECTION MUST BE COMPLETED BY BIDDER:**FIRM NAME: Cabot Norit Americas Inc.ADDRESS: 3200 University AveCITY, STATE: Marshall, TX ZIP: 75672TELEPHONE: (903) 923-1046 FAX: (903) 923-1035EMAIL ADDRESS: amber.lewis@cabotcorp.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: None reviewed

NUMBER: _____

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ 376,000.⁰⁰AUTHORIZED SIGNATURE: Timothy WrubleTimothy Wruble
Printed NameTITLE: Vice President / Business Director

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00114227

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|-------------|----------|------|--|-------------------|--------------|
| 1 | 220.00 | TN | TWO (2) YEAR CONTRACT FOR VARIOUS CHEMICALS FOR THE JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS - WATER 0010 BULK LIQUID AMMONIA (DELIVERED FREIGHT PREPAID IN APPROXIMATELY 2 OR 3 TON SHIPMENTS TO BOTH THE EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATIONS: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072 | No Bid | — |
| 2 | 120.00 | TN | 0020 ZINC SODIUM HEXAMETAPHOSPHATE (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072 | No Bid | — |
| 3 | 1,300.00 | TN | 0030 BULK POLYDADMAC POLYELECTROLYTE CLARIFLOC C-308P (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072 | No Bid | — |
| 4 | 90.00 | DRUM | 0040 AMMONIUM HYDROXIDE SOLUTION, 29.4% IN 55 GALLON DRUMS (DELIVERED FREIGHT PREPAID IN 10 DRUM SHIPMENTS AS REQUIRED). DELIVERY TO: GRAND ISLE, LA 70358 | No Bid | — |
| 5 | 400.00 | TN | 0050 BULK POWDERED ACTIVATED CARBON FOR BROAD SPECTRUM ORGANICS REMOVAL (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 | \$940.00 per ton | \$376,000.00 |

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00114227

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|----------------|-----------|-----|---|----------------------|--------|
| 6 | 1,300.00 | TN | WESTBANK PLANT - MARRERO, LA 70072 0060 LIQUID CHLORINE IN 1 TON CYLINDERS (CYLINDERS DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072 | No Bid | — |
| 7 | 30,000.00 | LB | 0070 LIQUID CHLORINE IN 150 POUND CYLINDERS (CYLINDERS DELIVERED IN 1500 LB SHIPMENTS FREIGHT PREPAID AS REQUIRED) DELIVERY TO: GRAND ISLE, LA 70358 | No Bid | ✓ |
| 8 | 140.00 | TN | 0080 BULK FLUOROSILICIC ACID BID ON A 100% DRY BASIS (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70075 | No Bid | — |
| 9 | 3,100.00 | TN | 0090 BULK LIQUID ALUMINUM SULFATE BID ON A 100% DRY BASIS (DELIVERED FREIGHT PREPAID IN 20 TON SHIPMENTS TO BOTH EASTBANK AND WESTBANK WATER TREATMENT PLANTS AS REQUIRED). DELIVERY LOCATION: EASTBANK PLANT - JEFFERSON, LA 70121 WESTBANK PLANT - MARRERO, LA 70072 | No Bid | — |

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF

INCORPORATED.

AT THE MEETING OF DIRECTORS OF _____
INCORPORATED, DULY NOTICED AND HELD ON _____,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

RESOLVED THAT _____, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.

SECRETARY-TREASURER

DATE

*See attached Corporate documents

CABOT NORIT AMERICAS, INC.

Secretary Certificate

I, Karen A. Kalita, the duly elected Assistant Secretary of Cabot Norit Americas, Inc., a corporation organized under the laws of the State of Georgia (the "Corporation"), hereby certify the following:

1. The Corporation was incorporated in the State of Georgia, U.S.A. on May 9, 1991.
2. That, as of the date hereof, the following persons serve in the offices of this Corporation set forth before their respective names:

| | |
|---|------------------------|
| Chief Executive Officer and President | Friedrich von Gottberg |
| Chief Financial Officer, Vice President and Treasurer | Marc D. Maloney |
| Executive Vice President | Robert W. Davies |
| Vice President | Hobart C.K. Kalkstein |
| Vice President | Timothy Wruble |
| Secretary | Jane A. Bell |
| Assistant Secretary | Karen A. Kalita |

3. That, as of the date hereof, the Directors of the Corporation are as follows:

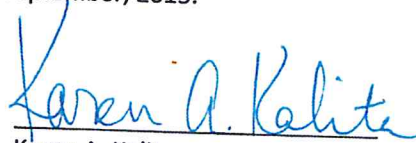
Marc D. Maloney
Robert W. Davies
Friedrich von Gottberg

4. The following officers of this Corporation, while serving in such offices, are authorized to act in the name and on behalf of the Corporation and can legally and validly sign pricing, agreements, and other documentation in connection with the submission of bids for the sale of activated carbon and related services by the Corporation where the value of or consideration for such bid or agreement does not exceed the authority limit set forth below after such officer's name:

| | | |
|---|------------------------|--------------|
| Chief Executive Officer and President | Friedrich von Gottberg | \$10,000,000 |
| Chief Financial Officer, Vice President and Treasurer | Marc D. Maloney | \$5,000,000 |
| Vice President | Hobart C.K. Kalkstein | \$2,000,000 |
| Vice President | Timothy Wruble | \$500,000 |

5. The Corporation is an indirectly held, wholly-owned subsidiary of Cabot Corporation. The Corporation is 100% owned by Norit Americas Holding Inc., with an address c/o Cabot Corporation, Two Seaport Lane, Suite 1300, Boston, MA 02210.

IN WITNESS WHEREOF I have signed this Certificate this 4th day of September, 2015.


Karen A. Kalita
Assistant Secretary

Non-Public Works Bid Affidavit Instructions

- **Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.**
- **Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.**
- **Affidavit must be notarized or the affidavit will not be accepted.**
- **Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.**
- **Affiant MUST select either A or B when required or the affidavit will not be accepted.**
- **Affiants who select choice A must include an attachment or the affidavit will not be accepted.**
- **If both choice A and B are selected, the affidavit will not be accepted.**
- **Affidavit marked N/A will not be accepted.**
- **It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.**

Instruction sheet may be omitted when submitting the affidavit

Non-Public Works Bid

AFFIDAVIT

STATE OF Texas

PARISH/COUNTY OF Harrison

BEFORE ME, the undersigned authority, personally came and appeared: Timothy Woble, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized Vice President / Bus. Dir. of Cabot Nonit Americas Inc. (Entity), the party who submitted a bid in response to Bid Number 50-6114227 to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B ☒ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

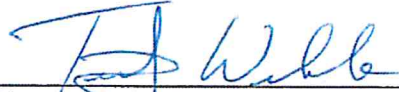
Choice B _____ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



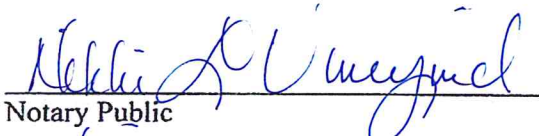
Signature of Affiant

Timothy W. Webb

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 8th DAY OF SEPT, 2015.



Notary Public

Nikki L. Vineyard

Printed Name of Notary

12837685-3

Notary/Bar Roll Number

My commission expires 9/12/18.



INSURANCE REQUIREMENTS - BIDS

All insurance requirements shall conform to Jefferson Parish Resolution No. 113646 or No. 113647. The contractor shall not commence work under this contract until he has obtained all insurance and complied with the requirements of the specifications and said Parish Resolutions. Except as otherwise provided by law, the Parish Attorney's Office with the concurrence of the Director of Risk Management is authorized to omit in whole or part the insurance requirements of this section in connection with contracts. Vendors inquiring about this shall submit his written request to the Purchasing Department prior to the due date of the bid. Contractor must deliver and maintain such insurances as provided; failure to do so shall be grounds for suspension, discontinuation or termination of the contract.

Successful bidder will be required to procure standard insurance policies evidencing Parish mandated insurance requirements indicated below. The current certificate of insurance must be submitted by low bidder within 10 days after bid opening to the Purchasing Department. Failure to comply will cause bid to be rejected.

1. WORKER'S COMPENSATION INSURANCE

As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be \$1,000,000 per occurrence when Work is to be over water and involves maritime exposures to cover all employees not covered under the State Worker's Compensation Act, otherwise this limit shall be no less than \$500,000 per occurrence.

2. COMMERCIAL GENERAL LIABILITY

Shall provide limits not less than the following: \$1,000,000.00 Combined Single Limit per Occurrence for bodily injury and property damage.

3. COMPREHENSIVE AUTOMOBILE LIABILITY

Bodily injury liability \$1,000,000.00 each person; \$1,000,000.00 each occurrence.
Property Damage Liability \$1,000,000.00 each occurrence.

DEDUCTIBLES

No insurance required shall include a deductible not greater than \$10,000.00. The cost of the deductible shall be borne by the contractor.

NOTE: If the vendor requires a change in deductibles, the request must be submitted in writing to the Purchasing Department prior to the due date of the bid. Such request shall be reviewed by the Parish Attorney's Office.

UMBRELLA LIABILITY COVERAGE

An umbrella policy or excess may be used to meet minimum requirements.

CONSTRUCTION AND RENOVATION PROJECTS:

Unless otherwise specified in the bid, these additional insurance is required. Such insurance is due upon contract execution.

OWNER'S PROTECTIVE LIABILITY

To be for the same limits of liability for bodily injury and property damage liability established for commercial general liability.

BUILDER'S RISK INSURANCE

The contractor shall maintain Builder's Risk Insurance at his own expense to insure both the owner (Parish of Jefferson) and contractor as their interest may appear.

NOTE for CERTIFICATE HOLDER:

All insurance certificates shall list the certificate holder as follows:

"The Parish of Jefferson, its Districts, Departments and Agencies under the direction of the Parish President and the Parish Council." Additionally, the address on the Certificates should reflect the department which is letting the bid and reference the respective bid number.

Revised 2.10.2014

HYDRODARCO® W POWDERED ACTIVATED CARBON

WHY CABOT

Cabot Norit Activated Carbon is a premier activated carbon manufacturer respected for experienced people, diverse products and strong customer relationships. Cabot's history of innovation, product performance, technical expertise and customer focus ensure that you receive the right products and solutions for your specific purification needs.



HYDRODARCO W is a powdered activated carbon produced by steam activation of lignite coal. It is finely milled to obtain a high degree of suspension in the process fluid and has a high capacity for adsorption of organics that cause taste and odor problems in water supplies.

Treatment of Potable Water Supplies

HYDRODARCO W is primarily used for the removal of tastes, odors and other organics from potable water supplies. It is an effective water treatment carbon for the removal of tannins and humic acids. These are precursors of trihalomethanes and are major contributors to taste and odor in drinking water. The product is Kosher certified and meets NSF/ANSI Standard 61 with a maximum use level of 250 mg/L.

HYDRODARCO W meets the physical and performance requirements of AWWA B600 standards for powdered activated carbon as measured by Norit test methods.

PRODUCT SPECIFICATIONS

| | | |
|-------------------------------|----------|-------------|
| Iodine number | 500 min. | mg/g |
| Moisture | 8 max. | % as packed |
| Mesh size (U.S. Sieve Series) | | |
| Less than 100 mesh (150 µm) | 99 min. | % |
| Less than 200 mesh (75 µm) | 95 min. | % |
| Less than 325 mesh (45 µm) | 90 min. | % |

TYPICAL PROPERTIES*

| | | |
|----------------------------------|----------|--------|
| Tannin value | 360 | mg/L |
| Molasses decolorizing efficiency | 75 | |
| pH, water extract | Alkaline | |
| Bulk density, tamped | 0.62 | g/mL |
| | 39 | lb/ft³ |

*For general information only, not to be used as purchase specifications.

PACKAGING/TRANSPORTATION

Standard packages:
 40 lb paper bag, 50 bags per pallet for a net pallet weight of 2000 lb
 Woven polypropylene bulk bag with a plastic liner 900 or 1200 lb net
 Bulk trailer
 Activated carbon (NOT REGULATED)
 Exempt from DOT, IATA, and IMDG regulations
 Import/Export classification: 3802.10.0000 (HS Tariff Classification)
 Domestic Freight Classification: NMFC 040560
 CAS # 7440-44-0

HYDRODARCO® W

MATERIAL HANDLING

Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed. Appropriate protective equipment should be worn. Avoid inhalation of excessive carbon dust. No problems are known to be associated in handling this material. This product contains silica. Please see the product Material Safety Data Sheet for details. Long-term inhalation of high dust concentrations can lead to respiratory impairment. Use forced ventilation or a dust mask when necessary for protection against airborne dust exposure (see Code of Federal Regulations - Title 29, Subpart Z, par. 1910.1000, Table Z-3).



NORTH AMERICA
Cabot Corporation Business
and Technical Center
157 Concord Road
Billerica, MA 01821-7001 USA
TEL 800 462 2313
FAX +1 978 670 7035

SOUTH AMERICA
Cabot Latin American Division
Rue do Paraíso, 148 - 5º andar
04103-000, São Paulo, SP
BRAZIL
TEL +55 11 2144 6400
FAX +55 11 3253 0051

EUROPE
Cabot Norit Nederland B.V.
P.O. Box 105
3800 AC Amersfoort
The Netherlands
TEL +31 33 46 48 911
FAX +31 33 46 17 429

ASIA PACIFIC
Cabot China Ltd.
558 Shuangbai Road
Shanghai 201108, CHINA
TEL +86 21 5175 8800
FAX +86 21 6434 5532

JAPAN
Cabot Specialty Chemicals, Inc.
Sumitomo Chiba-Daimon Bldg. 3F
2-5-5 Shiba Daimon, Minato-ku,
Tokyo 105-0012, JAPAN
TEL +81 3 6820 0255
FAX +81 3 5425 4500

This information is provided as a convenience and for informational purposes only. No guarantee or warranty as to this information, or any product to which it relates, is given or implied. Cabot disclaims all warranties express or implied, including merchantability or fitness for a particular purpose as to (i) such information, (ii) any product or (iii) intellectual property infringement. In no event is Cabot responsible for, and Cabot does not accept and hereby disclaims liability for, any damages whatsoever in connection with the use of or reliance on this information or any product to which it relates.

HYDRODARCO® is a registered trademark of Cabot Corporation.

©2013 Cabot Corporation. All rights reserved worldwide.



OFFICIAL LISTING

NSF International Certifies that the products appearing on this Listing conform to the requirements of
NSF/ANSI Standard 61 - Drinking Water System Components - Health Effects

This is the Official Listing recorded on July 31, 2012.

Norit Americas Inc.
3200 University Avenue
P.O. Box 790
Marshall, TX 75671
903-923-1000

Facility: # 1 USA

| Trade Designation | Process Media Size | Water | Water |
|---------------------------------|-----------------------|-----------------|---------------------|
| | | Contact Temp | Contact Material |
| Powdered Activated Carbon | | | |
| HYDRODARCO B ^[1] [2] | 100 mesh | CLD 23 | PAC |

[1] Certified for a maximum use level of 250 mg/L.

[2] The carbon source is coal.

NOTE: All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

NOTE: Certified for water treatment plant applications.
This product has not been evaluated for point of use applications.

Facility: Marshall, TX

| Trade Designation | Process Media Size | Water | Water |
|--|-----------------------|-----------------|---------------------|
| | | Contact Temp | Contact Material |
| Granular Activated Carbon ^[1] | | | |
| DARCO® 4x12 | 4 x 12 mesh | CLD 23 | GAC |
| DARCO® 12x20 | 12 x 20 mesh | CLD 23 | GAC |
| DARCO® 12x40 | 12 x 40 mesh | CLD 23 | GAC |
| DARCO® 20x40 | 20 x 40 mesh | CLD 23 | GAC |
| DARCO® 80x325 | 80 x 325 mesh | CLD 23 | GAC |
| DARCO® 20x50 | 20 x 50 mesh | CLD 23 | GAC |
| HYDRODARCO® 3000 | 8 x 30 mesh | CLD 23 | GAC |
| HYDRODARCO® 4000 | 12 x 40 mesh | CLD 23 | GAC |
| HYDRODARCO® 816 | 8 x 16 mesh | CLD 23 | GAC |
| HYDRODARCO® 820 | 8 x 20 mesh | CLD 23 | GAC |
| Powdered Activated Carbon ^[1] [2] | | | |
| DARCO® S-51 | NA | CLD 23 | PAC |
| DARCO® S-51 FF | NA | CLD 23 | PAC |
| DARCO® S-51 HF | NA | CLD 23 | PAC |
| HYDRODARCO® B | [3] | CLD 23 | PAC |
| HYDRODARCO® C | [3] | CLD 23 | PAC |
| HYDRODARCO® EXP 385 | [3] | CLD 23 | PAC |

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.



| | | | |
|----------------|-----|--------|-----|
| HYDRODARCO® P | [3] | CLD 23 | PAC |
| HYDRODARCO® R | [3] | CLD 23 | PAC |
| HYDRODARCO® W | [3] | CLD 23 | PAC |
| HYDRODARCO® O | [3] | CLD 23 | PAC |
| HYDRODARCO® AL | NA | CLD 23 | PAC |

[1] Carbon source is lignite coal.

[2] Certified for a maximum use level of 250 mg/L.

[3] Certified for the following mesh sizes: -100, -200 and -325.

NOTE: All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark.

NOTE: Certified for water treatment plant applications.

This product has not been evaluated for point of use applications.

Facility: Pryor, OK

| | Process Media | | Water Contact Temp | Water Contact Material |
|---|---------------|--|--------------------------|------------------------------|
| Trade Designation | Size | | | |
| Powdered Activated Carbon ^[1] ^[2] | | | | |
| NORIT PAC 200 | 200 mesh | | CLD 23 | PAC |
| NORIT PAC 20B | 200 mesh | | CLD 23 | PAC |
| NORIT PAC 20BF | 325 mesh | | CLD 23 | PAC |
| Granular Activated Carbon | | | | |
| Norit GAC 1020 ^[1] | 10 x 20 mesh | | CLD 23 | GAC |
| Norit GAC 1240 ^[1] | 12 x 40 mesh | | CLD 23 | GAC |
| Norit GAC 1240 Plus ^[1] | 12 x 40 mesh | | CLD 23 | GAC |
| Norit GAC 1240 Plus AQ ^[1] | 12 x 40 mesh | | CLD 23 | GAC |
| Norit GAC 1240 Plus N ^[1] | 12 x 40 mesh | | CLD 23 | GAC |
| Norit GAC 250 ^[1] | 20 x 50 mesh | | CLD 23 | GAC |
| Norit GAC 300 ^[1] | 8 X 30 mesh | | CLD 23 | GAC |
| Norit GAC 30S ^[1] | 8 x 30 mesh | | CLD 23 | GAC |
| Norit GAC 400 ^[1] | 12 x 40 mesh | | CLD 23 | GAC |
| Norit GAC 400 Plus ^[1] | 12 x 40 mesh | | CLD 23 | GAC |
| Norit GAC 40S ^[1] | 12 x 40 mesh | | CLD 23 | GAC |
| Norit GAC 40SAB ^[1] | 12 x 40 mesh | | CLD 23 | GAC |
| Norit GAC 610 ^[1] | 6 x 10 mesh | | CLD 23 | GAC |
| Norit GAC 816 ^[1] | 8 x 16 mesh | | CLD 23 | GAC |
| Norit GAC 820 ^[1] | 8 x 20 mesh | | CLD 23 | GAC |
| Norit GAC 820E ^[1] | 8 x 20 mesh | | CLD 23 | GAC |
| Norit GAC 830 ^[1] | 8 x 30 mesh | | CLD 23 | GAC |
| Norit GAC 830 Plus ^[1] | 8 x 30 mesh | | CLD 23 | GAC |

[1] The carbon source is bituminous coal.

[2] This product is Certified with a maximum use level of 250 mg/L.

NOTE: All Listed products from this facility are NSF Certified, whether or not they bear the NSF Mark. Carbon source is bituminous coal and sub-bituminous coal.

NOTE: Certified for water treatment plant applications.

This product has not been evaluated for point of use applications.

Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF International.

Prepared in accordance with the United States Hazard Communication
Standard: 29 CFR 1910.1200 (2012)

Revision date: 13-May-2015

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

Product name: HYDRODARCO® W

Product code: HDW

Synonyms: Activated carbon

Recommended use: Liquid and vapor applications (purification, decolorization, separation, catalyst and deodorization)

Restrictions on use: No information available.

Supplier:

Cabot Corporation
157 Concord Road
Billerica, MA 01821
UNITED STATES
Tel: 1-978-663-3455
Fax: 1-978-670-6955

Emergency Telephone Number: US: CHEMTREC 1-800-424-9300 or 1-703-527-3887
International CHEMTREC: +1 703-741-5970 or +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status: This chemical is considered hazardous by the United States 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Label Elements

Pictogram: None

Signal Word: WARNING

Hazard statements: May form combustible dust concentrations in air

**Precautionary Statements -
Prevention**

- Keep away from all ignition sources including heat, sparks and flame
- Prevent dust accumulations to minimize explosion hazard

Hazards not otherwise classified (HNOC)

Odorless black granules or powder. Avoid contact with skin and eyes. Avoid breathing dust. Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.

Workers should also take appropriate precautions when dealing with spent (used) activated carbons which may exhibit hazardous properties associated with the adsorbed materials.

Avoid dust formation. Powdered material may form an explosible dust-air mixture. If transferring product under pressure, avoid generation of dust if an ignition source is present.

Activated carbons have high surface area which may cause self-heating during oxidation. See Section 5.

Do not generate dust because airborne respirable crystalline silica may be generated.

Potential health effects

Principle Routes of Exposure: Inhalation, Eye contact, Skin Contact

Eye Contact: May cause mechanical irritation. Avoid contact with eyes.

Skin Contact: May cause mechanical irritation. Avoid contact with skin.

Inhalation: Dust may be irritating to respiratory tract. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated. See also Section 8.

Ingestion: Adverse health effects are not known or expected under normal use.

Carcinogenicity: See Section 11.

Target Organ Effects: Lungs, Eyes, Skin

Medical Conditions Aggravated by Exposure: Asthma, Respiratory disorder, Skin disorders

Potential Environmental Effects: No special environmental precautions required. See also Section 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Activated carbon.

| Chemical name | CAS No | weight-% | Trade secret |
|------------------|-----------|----------|--------------|
| Activated Carbon | 7440-44-0 | 100 | |

This product, which is manufactured from a naturally occurring raw material(s), contains <10% total crystalline silica (quartz, CASRN 14808-60-7).

4. FIRST AID MEASURES

FIRST AID MEASURES

| | |
|---------------------|---|
| Skin Contact | Wash thoroughly with soap and water. Seek medical attention if symptoms develop. |
| Eye contact | Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if symptoms develop. |
| Inhalation | If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures. |
| Ingestion | Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person. |

Most important symptoms and effects, both acute and delayed

| | |
|------------------|--|
| Symptoms: | The most important known symptoms and effects are described in Section 2 and/or in Section 11. |
|------------------|--|

Indication of any immediate medical attention and special treatment needed

| | |
|----------------------------|------------------------|
| Note to physicians: | Treat symptomatically. |
|----------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

| | |
|---|--|
| Suitable Extinguishing Media: | Use foam, carbon dioxide (CO ₂), dry chemical or water spray. A fog is recommended if water is used. |
| Unsuitable Extinguishing Media: | DO NOT USE a solid water stream as it may scatter and spread fire. In the event of a fire, spreading large amounts of activated carbon is not recommended due to the risk of creating uncontrolled dust emissions. |
| Specific hazards arising from the chemical: | <p>Burning produces irritant fumes. If transferring product under pressure, avoid generation of dust if an ignition source is present.</p> <p>Activated carbons have high surface area which may cause self-heating during oxidation. An adequate air gap between packages of activated carbon is recommended to reduce risk of propagation of the event. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame.</p> |
| Hazardous combustion products: | Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed. Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Carbon monoxide (CO). Carbon dioxide (CO ₂). |
| Protective equipment and precautions for firefighters: | In the event of fire, wear self-contained breathing apparatus. Wear suitable protective equipment. |

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment. See also Section 8.

Environmental Precautions:

Environmental Precautions: No special environmental precautions required. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Use of a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by using a brush or compressed air. Pick up and transfer to properly labelled containers. Spent granular activated carbon may be recyclable. Dispose of virgin (unused) carbon (surplus or spillage) in a facility permitted for non-hazardous wastes. Spent (used) carbon should be disposed of in accordance with applicable laws. Do not reuse empty bags: dispose of in a facility permitted for non-hazardous wastes. See Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Dust may form explosible mixture in air.

Activated carbons have high surface area which may cause self-heating during oxidation. Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts. If hot work (welding, torch cutting, etc.) is required the immediate work area must be cleared of product and dust.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Do not store together with strong oxidizing agents. Keep in properly labeled containers. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosible mixture if they are released in the atmosphere in sufficient concentrations. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.

Incompatible materials: Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure guidelines:

Exposure limits for components or similar components are stated below.

| | | |
|---|------------------------|---|
| Dust, or Particulates Not Otherwise Specified: | Austria MAK: | 10 mg/m ³ , STEL 2x30 min, Inhalable dust 5 mg/m ³ , TWA, Inhalable dust |
| | Belgium: | 10 mg/m ³ , TWA, Inhalable 3 mg/m ³ TWA, Respirable |
| | Canada (Saskatchewan): | 10 mg/m ³ , TWA, Inhalable 3 mg/m ³ TWA, Respirable |
| | China: | 8 mg/m ³ , TWA 10 mg/m ³ , STEL |
| | France: | 10 mg/m ³ , TWA Inhalable dust 5 mg/m ³ , TWA Respirable dust |
| | Germany - TRGS 900: | 10 mg/m ³ , TWA, Inhalable 3 mg/m ³ , Respirable fraction |
| | Hong Kong: | 10 mg/m ³ , TWA |
| | Ireland: | 10 mg/m ³ , TWA, Total inhalable 4 mg/m ³ , TWA, Respirable |
| | Italy: | 10 mg/m ³ , TWA, Inhalable 3 mg/m ³ , TWA, Respirable |
| | Japan: | 3 mg/m ³ TWA, Respirable |
| | Malaysia: | 10 mg/m ³ , TWA, Inhalable 3 mg/m ³ , TWA, Respirable |
| | The Netherlands: | 3.5 mg/m ³ , Inhalable |
| | Spain: | 10 mg/m ³ , VLA, Inhalable 3 mg/m ³ , VLA, Respirable |
| | Sweden: | 10 mg/m ³ , NGV, Total inhalable 5 mg/m ³ , NGV, Respirable |
| | United Kingdom - WEL: | 10 mg/m ³ , TWA, Total Inhalable dust 4 mg/m ³ , TWA, Respirable dust |
| | US ACGIH - PNOS: | 10 mg/m ³ , TWA, Inhalable 3 mg/m ³ , TWA, Respirable |
| | US OSHA - PEL: | 15 mg/m ³ , TWA, Total dust 5 mg/m ³ , TWA, Respirable |

| | | |
|--|---------------|---|
| Silica, Crystalline (Quartz) CAS RN 14808-60-7: | Austria MAK: | 0.15 mg/m ³ , TWA (Respirable) |
| | Belgium: | 0.1 mg/m ³ , TWA (Alveolar fraction) |
| | Denmark: | 0.1 mg/m ³ , TWA (Respirable) |
| | Finland: | 0.05 mg/m ³ , TWA (Respirable) |
| | France: | 0.1 mg/m ³ , VME (Alveolar fraction) |
| | Ireland: | 0.1 mg/m ³ , TWA (Respirable) |
| | Italy: | 0.025 mg/m ³ , TWA (Respirable) |
| | Japan: | (3 mg/m ³)/(1.19%SiO ₂ + 1) (Respirable) |
| | Switzerland: | 0.15 mg/m ³ , TWA (Respirable) |
| | UK WEL: | 0.1 mg/m ³ , TWA (Respirable) |
| | US OSHA PEL: | (10 mg/m ³)/(%SiO ₂ + 2) (Respirable) (30 mg/m ³)/(%SiO ₂ + 2) (Total) |
| | US ACGIH TLV: | 0.025mg/m ³ (Respirable) |

MAK: Maximale Arbeitsplatzkonzentration (Maximum Workplace Concentration)

NGV: Nivå Gräns Värde (Level Limit Value)

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TRGS: Technische Regeln für Gefahrstoffe (Technical Rule for Hazardous Materials)

TWA: Time Weighted Average

US ACGIH: United States American Conference of Governmental Industrial Hygienists

US OSHA: United States Occupational Safety and Health Administration

VLA: Valore Limite Ambientale (Environmental Limit Value)

WEL: Workplace Exposure Limit

Engineering Controls: Ensure adequate ventilation to maintain exposures below occupational limits. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment [PPE]

Respiratory Protection: Approved respirator may be necessary if local exhaust ventilation is not adequate.

Hand Protection: Wear suitable gloves.

Eye/face Protection: Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin and Body Protection: Wear suitable protective clothing. Wash clothing daily. Work clothing should not be allowed out of the workplace.

Other: Handle in accordance with good industrial hygiene and safety practice. Emergency eyewash and safety shower should be located nearby.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information given is based on data obtained from this substance or from similar substances.

| | | | |
|------------------------|--------|------------------------|---|
| Physical State: | Solid | Odor: | Generally odorless. May produce slight sulfur smell when wet. |
| Appearance: | Powder | Odor threshold: | Not Applicable |
| Color: | Black | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|-----------------------------|--|
| pH: | | Not Applicable |
| Melting point/freezing point: | | Not Applicable |
| Boiling point / boiling range: | | Not Applicable |
| Evaporation Rate: | | Not Applicable |
| Vapor pressure: | | Not Applicable |
| Vapor Density: | | Not Applicable |
| Density: | | No information available |
| Bulk Density: | 25 - 35 lbs/ft ³ | |
| Specific Gravity at 20°C: | | No information available |
| Water solubility: | | Insoluble |
| Solubility(ies): | | No information available |
| Partition Coefficient (n-octanol/water): | | No information available |
| Decomposition temperature: | | No information available |
| Viscosity: | | No information available |
| Kinematic viscosity: | | No information available |
| Dynamic viscosity: | | No information available |
| Oxidizing Properties: | | Not Applicable |
| Softening point: | | No information available |
| VOC content (%): | | Not Applicable |
| % Volatile (by Volume): | | No information available |
| % Volatile (by Weight): | | No information available |
| Surface Tension: | | No information available |
| Explosive properties: | | Dust may form explosive mixture in air |
| Flash Point: | | Not Applicable |
| Flammability (solid, gas): | | No information available |
| Flammability Limit in Air: | | No information available |
| Explosion Limits in Air - Upper (g/m ³): | | No information available |
| Explosion Limits in Air - Lower (g/m ³): | 50 g/m ³ | ASTM E-1515 |
| Autoignition Temperature: | | No information available |
| Minimum Ignition Temperature: | 480 - 500 °C | ASTM E-1491 |
| Minimum Ignition Energy: | > 500 mJ | ASTM E-2019 and IEC 61241-2-3 |
| Ignition Energy: | | No information available |
| Maximum Absolute Explosion Pressure: | 7.9 bar | ASTM E-1226 |
| Maximum Rate of Pressure Rise: | 415 bar/sec | ASTM E-1226 |
| Burn Velocity: | | No information available |
| Kst Value: | 113 bar.meter/second | ASTM E-1226 |
| Dust Explosion Classification: | ST1 | |

10. STABILITY AND REACTIVITY

| | |
|-------------------------------------|--|
| Reactivity: | May react exothermically upon contact with strong oxidizers. |
| Stability: | Stable under recommended handling and storage conditions. |
| Possibility of hazardous reactions: | None under normal processing. |
| Hazardous polymerization: | Hazardous polymerization does not occur. |

| | |
|--|---|
| Conditions to avoid: | Keep away from heat and sources of ignition. Avoid dust formation. Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result. Activated carbons have high surface area which may cause self-heating during oxidation. |
| Incompatible materials: | Strong oxidizing agents. Strong acids. |
| Explosion data | See also Section 9. |
| Sensitivity to Mechanical Impact: | None. |
| Sensitivity to Static Discharge: | Dust may form explosible mixture in air. Do not create a dust cloud by using a brush or compressed air. |
| Hazardous decomposition products: | Used activated carbon may produce additional combustion products which are based on the substance(s) adsorbed. Materials allowed to smolder for long periods in enclosed spaces may produce amounts of carbon monoxide which reach the lower explosive limit (carbon monoxide LEL = 12.5% in air). Carbon oxides. |

11. TOXICOLOGICAL INFORMATION

Information given is based on data obtained from this substance or from similar substances.

Acute toxicity

Not classified.

Oral LD50: LD50/oral/rat = >2000 mg/kg. (OECD 423).

Inhalation LC50: LC50/inhalation/1h/rat = >8.5 mg/L (OECD 403)

Dermal LD50: Absorption highly unlikely, no health effects known.

Skin corrosion/irritation: Not classified
Skin irritation test, rabbit (OECD 404): Not irritating

Serious eye damage/eye irritation: Not classified. Eye irritation test, rabbit (OECD 405): Not irritating.

Sensitization: Not classified. Not sensitizing based on Local Lymph Node Assay (OECD 429).

Mutagenicity: Not classified.
- Gene mutation in bacteria (Bacterial Reverse Mutation Assay/Ames) (OECD 471): not mutagenic.
- In vitro Mammalian Chromosome Aberration Test (OECD 473): not clastogenic.
- In vitro Mammalian Cell Gene Mutation Test (OECD 476): non-mutagenic.

Carcinogenicity: Not classified.

Contains a component (crystalline silica) that is listed by IARC as group 1, by ACGIH as group A2, and by NTP as a known human carcinogen.

| | |
|----------------------------------|---|
| Reproductive Toxicity: | Not classified. Repeated dose inhalation toxicity test showed no reproductive target organ effects, and a toxicokinetic study showed no product migration to reproductive organs. |
| STOT - single exposure: | Not classified. |
| STOT - repeated exposure: | Not classified. Repeated dose toxicity study, inhalation (rat) 90 days (OECD 413): NOAEC 7.29 mg/m ³ (respirable). This test was conducted on activated carbon containing negligible crystalline silica; therefore activated carbon itself is not classified for STOT-RE. Although respirable crystalline silica is classified as STOT-RE1, this product contains <1% respirable crystalline silica, therefore it is not classified for STOT-RE. |
| Aspiration Hazard: | Based on industrial experience and available data, no aspiration hazard is expected. |

12. ECOLOGICAL INFORMATION

Information given is based on data obtained from this substance or from similar substances.

| | |
|------------------------------|---|
| Aquatic Toxicity: | Non toxic. The substance is highly insoluble in water and the substance is unlikely to cross biological membranes. No adverse ecological effects are known. |
| Terrestrial Toxicity: | Earthworm reproduction study (OECD 222), NOAEC for body weight reduction 1000 mg/kg soil; NOAEC for reproduction 3200 mg/kg soil. Non toxic in soil. |

ENVIRONMENTAL FATE

| | |
|--|--|
| Persistence and degradability | Not expected to degrade |
| Bioaccumulation | Not expected due to physicochemical properties of the substance. |
| Mobility: | Not expected to migrate. Insoluble. |
| Distribution to Environmental Compartments: | Insoluble. Expected to remain on soil surface. |
| Other adverse effects: | No information available. |

13. DISPOSAL CONSIDERATIONS

Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 3 of this MSDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

| | |
|--------------|---|
| RCRA: | Unused product is not a hazardous waste under U.S. RCRA, 40 CFR 261. Spent (used) product may be hazardous based on the substance adsorbed. |
|--------------|---|

Disposal of wastes

Activated carbon, in its original state, is not a hazardous material or hazardous waste. Follow applicable regulations for waste disposal.

Spent (used) activated carbon may be classified as a hazardous waste depending upon its use, the substance(s) adsorbed, and how it is ultimately managed. Follow applicable regulations for disposal.

Recycling (reactivation) may be a viable alternative to disposal. Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

DOT

| | |
|----------------------|---------------|
| UN/ID no | Not regulated |
| Proper Shipping Name | Not regulated |
| Hazard Class | Not regulated |
| Packing group | Not regulated |

ICAO (air)

| | |
|----------------------|---------------|
| UN/ID no | Not regulated |
| Proper Shipping Name | Not regulated |
| Hazard Class | Not regulated |
| Packing group | Not regulated |

IATA

| | |
|----------------------|---------------|
| UN/ID no | Not regulated |
| Proper Shipping Name | Not regulated |
| Hazard Class | Not regulated |
| Packing group | Not regulated |

IMDG

| | |
|----------------------|---------------|
| UN/ID no | Not regulated |
| Proper Shipping Name | Not regulated |
| Hazard Class | Not regulated |
| Packing group | Not regulated |

RID

| | |
|----------------------|---------------|
| UN/ID no | Not regulated |
| Proper Shipping Name | Not regulated |
| Hazard Class | Not regulated |
| Packing group | Not regulated |

ADR

| | |
|----------------------|---------------|
| UN/ID no | Not regulated |
| Proper Shipping Name | Not regulated |
| Hazard Class | Not regulated |
| Packing group | Not regulated |

15. REGULATORY INFORMATION**Hazard Classification**

United States - OSHA (29 CFR 1910.1200): Hazardous

Canada - WHMIS Classification (CPR, SOR/88-66): Not controlled

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

| Chemical name | WHMIS - Ingredient Disclosure |
|-----------------------------------|-------------------------------|
| Quartz (respirable) 14808-60-7 | 1 |

International Inventories

| | |
|--|----------|
| TSCA - United States Toxic Substances Control Act Section 8(b) Inventory | Complies |
| DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List | Complies |
| EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances | Complies |
| ENCS - Japan Existing and New Chemical Substances | Complies |
| IECSC - China Inventory of Existing Chemical Substances | Complies |
| KECL - Korean Existing and Evaluated Chemical Substances | Complies |
| PICCS - Philippines Inventory of Chemicals and Chemical Substances | Complies |
| AICS - Australian Inventory of Chemical Substances | Complies |
| NZIoC - New Zealand Inventory of Chemicals | Complies |
| TCSI - Taiwan Chemical Substance Inventory | Complies |

US Federal Regulations**TSCA Section 12(b) Export Regulations:**

This product does not contain any components that are subject to TSCA 12(b) Export Notification

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | NO |
| Chronic Health Hazard | NO |
| Fire hazard | YES |
| Sudden release of pressure hazard | NO |
| Reactive Hazard | NO |

Clean Air Act Amendments of 1990**(CAA, Section 112, 40 CFR 82):**

This product does not contain any components listed as a Hazardous Air Pollutant, Flammable Substance, Toxic Substance, or Class 1 or 2 Ozone Depletor

CWA (Clean Water Act)

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

CERCLA

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

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

| Chemical name | California Proposition 65 |
|---|---------------------------|
| Quartz (respirable) 14808-60-7 (<10) | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania | Louisiana: |
|-----------------------------------|------------|---------------|--------------|------------|
| Quartz (respirable) 14808-60-7 | X | X | X | |

16. OTHER INFORMATION**Disclaimer:**

The information set forth is based on information that Cabot Corporation believes to be accurate. No warranty, expressed or implied, is intended. The information is provided solely for your information and consideration and Cabot assumes no legal responsibility for use or reliance thereon. In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.

Prepared by: Cabot Corporation - Safety, Health and Environmental Affairs

Revision date: 13-May-2015

The DARCO®, GRO-SAFE®, PETRODARCO®, NORIT®, and PURIT™ trademarks are owned by one or more Cabot Corporation subsidiaries.

End of Safety Data Sheet



NORIT ACTIVATED CARBON

P: +1 903 923 1000

F: + 1 903 923 1035

W: cabotcorp.com

Cabot Norit Americas Inc.

P.O. Box 790

Marshall, TX 75671

USA

September 8, 2015

Jefferson Parish, LA
General Government Building
Purchasing Dept – Suite 4400
200 Derbigny Street
Gretna, LA 70053

RE: Bid No.: 50-00114227 – Bulk Chemicals - Water
Due: September 10th, 2015 @ 2pm

AFFIDAVIT OF COMPLIANCE

This is to certify that HYDRODARCO® W (HDW) meets the following standards as specified in ANSI/AWWA B600-96, "AWWA Standard for Powdered Activated Carbon."

| | |
|---|------------|
| Moisture, percent as packed | 8 max. |
| Apparent Density, g/ml | 0.2 – 0.75 |
| Particle Size Distribution, percent by weight | |
| Less than 100 mesh | 99 min. |
| Less than 200 mesh | 95 min. |
| Less than 325 mesh | 90 min. |
| Iodine Adsorption Capacity | 500 min. |

Sincerely,

Cabot Norit Americas Inc.

David Steingas
Quality Assurance Manager



P: +1 903 923 1000
F: + 1 903 923 1035
W: cabotcorp.com

Cabot Norit Americas Inc.
P.O. Box 790
Marshall, TX 75671
USA

Standard Product Warranty

Cabot Norit Americas Inc. (Seller) warrants that the material delivered hereunder meets the Seller's standard quality or such other specification as has been expressly made a part of this contract.