

## 6. Waco Inc. Data Sheet

### 6. Waco Inc. Data Sheet

RFP Reference Section:

Page 4. Section V. Paragraph B. Item 4 and RFP Attachment A

Offeror Data Sheet, included as *Attachment A* to this RFP.

**ATTACHMENT A**

**OFFEROR DATA SHEET**

**TO BE COMPLETED BY OFFEROR**

**1. QUALIFICATIONS OF OFFEROR: Offerors must describe the capability and capacity in all respects to fully satisfy the contractual requirements.**

Waco Inc. is a large and diverse Company that has been in business since 1963. We are a licensed General Contractor, Asbestos Abatement Contractor and Lead Contractor as required by the RFP. We offer many additional services. We are financially stable and capable of handling multiple large projects simultaneously. Our multiple locations enhance the availability of a large work force.

**2. YEARS IN BUSINESS: Indicate the length of time you have been in business providing these types of goods and services.**

Years 52 Months 3

**3. REFERENCES: Indicate below a listing of at least five (5) organizations, either commercial or governmental/educational, that your agency is servicing. Include the name and address of the person the purchasing agency has your permission to contact.**

CLIENT	LENGTH OF SERVICE	ADDRESS	CONTACT PERSON/PHONE #
Radford University	Over 15 Years	Radford, VA	Steve Harrison 540-831-7804
Mohawk Industries	Over 15 Years	Glasgow, VA	Jimmy Wilmore 540-258-7410
McKee Foods	Over 8 Years	Stuarts Draft, VA	Donnie Shiflett 540-451-0195
Augusta Co. Schools	Over 10 Years	Verona, VA	Ron Houser 540-245-5100
Merck & Company	Over 25 Years	Elkton, VA	David Voigt 540-298-4898

**4. List full names and addresses of Offeror and any branch offices which may be responsible for administering the contract.**

Waco Inc. 844 Cottontail Trail, Mount Crawford, VA 22841 540-434-7390 Office 540-434-2553 Fax

**6. RELATIONSHIP WITH THE COMMONWEALTH OF VIRGINIA: Is any member of the firm an**

**employee of the Commonwealth of Virginia who has a personal interest in this contract pursuant to the CODE OF VIRGINIA, SECTION 2.2-3100 — 3131?**

YES  NO

**IF YES, EXPLAIN:** \_\_\_\_\_

**RETURN OF THIS PAGE IS REQUIRED**

## 7. SWaM Utiliation Plan

### 7. SWaM Utilization Plan

RFP Reference Section:

Page 4. Section V. Paragraph B. Item 6

Small Business Subcontracting Plan, included as Attachment B to this RFP. Offeror shall provide a Small Business Subcontracting plan which summarizes the planned utilization of DMBE-certified small businesses which include businesses owned by women and minorities, when they have received DMBE small business certification, under the contract to be awarded as a result of this solicitation. This is a requirement for all prime contracts in excess of \$100,000.

ATTACHMENT B

Small, Women and Minority-owned Businesses (SWaM) Utilization Plan

Offeror Name: Waco Inc. Preparer Name: Larry Battaile  
Date: April 1, 2015

Is your firm a **Small Business Enterprise** certified by the Department of Minority Business Enterprise?

Yes  No

If yes, certification number: \_\_\_\_\_ Certification date: \_\_\_\_\_

Is your firm a **Woman-owned Business Enterprise** certified by the Department of Minority Business Enterprise? Yes  No

If yes, certification number: \_\_\_\_\_ Certification date: \_\_\_\_\_

Is your firm a **Minority-Owned Business Enterprise** certified by the Department of Minority Business Enterprise? Yes  No

If yes, certification number: \_\_\_\_\_ Certification date: \_\_\_\_\_

**Instructions:** *Populate the table below to show your firm's plans for utilization of small, women-owned and minority-owned business enterprises in the performance of the Collection Services contract. Describe plans to utilize SWAMs businesses as part of joint ventures, partnerships, subcontractors, suppliers, etc.*

**Small Business:** "Small business " means a business, independently owned or operated by one or more persons who are citizens of the United States or non-citizens who are in full compliance with United States immigration law, which, together with affiliates, has 250 or fewer employees, or average annual gross receipts of \$10 million or less averaged over the previous three years.

**Woman-Owned Business Enterprise:** A business concern which is at least 51 percent owned by one or more women who are U.S. citizens or legal resident aliens, or in the case of a corporation, partnership or limited liability company or other entity, at least 51 percent of the equity ownership interest in which is owned by one or more women, and whose management and daily business operations are controlled by one or more of such individuals. **For purposes of the SWAM**

**Program, all certified women-owned businesses are also a small business enterprise.**

**Minority-Owned Business Enterprise:** A business concern which is at least 51 percent owned by one or more minorities or in the case of a corporation, partnership or limited liability company or other entity, at least 51 percent of the equity ownership interest in which is owned by one or more minorities and whose management and daily business operations are controlled by one or more of such individuals. **For purposes of the SWAM Program, all certified minority-owned businesses are also a small business enterprise.**

**All small, women, and minority owned businesses must be certified by the Commonwealth of Virginia Department of Minority Business Enterprise (DMBE) to be counted in the SWAM program. Certification applications are available through DMBE at 800-223-0671 in Virginia, 804-786-6585 outside Virginia, or online at [www.dmbc.virginia.gov](http://www.dmbc.virginia.gov) (Customer Service).**

RETURN OF THIS PAGE IS REQUIRED

**ATTACHMENT B (CNT'D)**

**Small, Women and Minority-owned Businesses (SWaM) Utilization Plan**

**Procurement Name and Number: ASBESTOS ABATEMENT SERVICES RFP CMB-772**

**Listing of Sub-Contractors, to include, Small, Woman Owned and Minority Owned Businesses for this Bid/Proposal and Subsequent Contract**

APRIL 1, 2015

**Date Form Completed**

**Offeror / Proposer:**  
Waco Inc  
Firm

844 Cottontail Trail, Mt. Crawford, VA 22841  
**Address**

Bobby Taylor  
540-434-7390  
**Contact Person/No.**

Sub-Contractor's Name and Address	Contact Person & Phone Number	DMBE Certification Number or FEIN No.	Services or Materials Provided	Total Subcontractor Contract Amount (to include change orders)	Total Dollars Paid Subcontractor to date (to be submitted with request for payment from JMU)	Federal Employer Identification Number
Bridgestone Const Harrisonburg, VA	John Hannah 540-434-3773	SWaM 651940	General Construction			
A Able Plumbing Broadway, VA	Anthony Slater 540-810-3331	SWaM 648344	Plumbing			
Blauch Brothers Harrisonburg, VA	Jimmy Blauch 540-434-2589	SWaM 649656	Plumbing HVAC			
Graves Electric Harrisonburg, VA	Christina Brown 540-810-0048	SWaM 689607	Electrical			
Floor Fashions Charlottesville, VA	Rob Yancey 434-296-7744	SWaM 699385	Flooring			

*(Form shall be submitted with proposal and if awarded, again with submission of each request for payment)*

**RETURN OF THIS PAGE IS REQUIRED**

## 8. VASCUPP Member Sales

### 8. VASCUPP Member Sales

RFP Reference Section:

Page 4. Section V. Paragraph B. Item 6

Identify the amount of sales your company had during the last twelve months with each VASCUPP Member Institution. A list of VASCUPP Members can be found at [www.VASCUPP.org](http://www.VASCUPP.org).

8. VASCUPP Member Sales  
RFP Reference Section:  
Page 4. Section V. Paragraph B. Item 6

<u>Facility Name</u>	<u>Sales For Past 12 Months</u>
George Mason University	\$0.00
James Madison University	\$1,213,856.00
Old Dominion University	\$0.00
Radford University	\$89,646.00
University of Virginia	\$1,061,409.00
Virginia Commonwealth University	\$694,813.00
Virginia Military Institute	\$180,830.00
Virginia Polytechnic Institute	\$418,686.00
William and Mary University	\$0.00

## 9. Cost Proposal

### 9. Cost Proposal And Pricing Schedule

RFP Reference Section:

Page 4. Section V. Paragraph B. Item 7 and Page 14/15 Section X

Proposed Cost. *"Pricing Schedule"* of this Request for Proposal.

~~443~~ 4423

Pricing Schedule - Page 1 of 3

Labor	Normal	Overtime	Holiday
Virginia Licensed Worker	\$38.00	\$55.10	\$72.20
Virginia Licensed Supervisor	\$41.00	\$59.45	\$77.90
Foreman	\$43.00	\$62.35	\$81.70
Mechanical Insulator Helper	\$35.54	\$51.53	\$67.53
Mechanical Insulator Mechanic	\$38.12	\$55.27	\$72.43
Mechanical Insulator Foreman	\$40.72	\$59.04	\$77.37
Materials	Unit	Cost	
Mastic Remover	Pail	\$86.19	
Encapsulant	Pail	\$59.44	
Spray Adhesive	Can	\$5.35	
Duct Tape	Roll	\$5.86	
Painter Tape - Blue	Roll	\$4.67	
Barricade Tape	Roll	\$18.63	
Protective Suit	Each	\$5.35	
Rubber Gloves	Pair	\$2.31	
Leather Palm Gloves	Pair	\$4.62	
Respirator Filter - 1/2 Face	Pair	\$6.93	
Rags - 10#	Bag	\$14.92	
Poly Sheet	Roll	\$94.50	
Disposal Bags (75/Roll)	Roll	\$90.46	
Glove Bag - QT 10	Each	\$12.94	
Glove Bag - QT 14	Each	\$15.46	
Disposable Decon	Each	\$291.86	

Pricing Schedule - Page 2 of 3

Materials	Unit	Cost	
<b>Price Page 2 Continued -</b>			
1/2" Negative Air Machine Filter	Each	\$1.11	
2" Negative Air Machine Filter	Each	\$7.70	
Negative Air Machine HEPA	Each	\$156.00	
Poly Exhaust Tube - 500'	Roll	\$75.50	
Reinforced Exhaust Duct	Each	\$25.67	
HEPA Vacuum Disposable Bag	Each	10.63	
HEPA Vacuum Pre-Filter	Each	\$7.09	
HEPA Vacuum HEPA Filter	Each	\$304.72	
Mechanical Insulation - Fiberglass	Manuf. List	Less 20%	List Attached
Material Not Listed	Std. Waco Warehouse Pricing	Counter Sales Price	
All Other Costs	Invoice	Invoice + 15%	
Other Costs			
Subcontractors	Invoice	Invoice + 10%	
Equipment Rental	Invoice	Invoice + 15%	
Asbestos Permits	Virginia Fee	VA. Fee + 15%	
Asbestos Disposal	Bag	\$3.89	
Asbestos Disposal - Open Top	Dumpster	\$3,840.00	
Asbestos Disposal - Enclosed	Dumpster	\$3,900.00	
Asbestos Disposal	Trailer	\$4,300.00	
Project	Labor	Materials	Total Cost
Attachment D Project - Lakeside Hall	\$33,000.00	\$20,000.00	\$53,000.00
Attachment E Project - Warren Campus	\$63,350.00	\$51,550.00	\$114,900.00
Attachment F Project - Hillside Hall	\$80,900.00	\$49,000.00	\$129,900.00

Pricing Schedule - Page 3 of 3

Micro-Lok® HP Jacketed Insulation

ML HP 100-2  
Effective 1-16-12  
Cancels ML HP 100 1-14-11

All Prices Net Per Lineal Foot

Iron Pipe Size (I.D.) in.	Insulation Thickness, Inches									
	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
1/2	\$1.05	\$1.27	\$2.41	\$3.74	—	—	—	—	—	—
3/4	1.19	1.39	2.42	3.86	—	—	—	—	—	—
1	1.23	1.49	2.59	4.11	\$4.83	\$6.73	—	—	—	—
1 1/4	1.31	1.61	2.82	4.34	5.00	6.87	—	—	—	—
1 1/2	1.51	1.74	2.95	4.53	5.26	7.18	\$9.27	—	—	—
2	1.61	1.88	3.25	4.77	5.52	7.32	9.34	—	—	—
2 1/2	1.69	2.14	3.49	5.14	6.35	7.62	—	—	—	—
3	1.89	2.29	3.65	5.45	6.69	8.10	10.51	\$13.55	\$17.71	\$18.54
3 1/2	2.27	2.48	4.00	5.91	7.71	9.48	10.94	13.93	—	—
4	2.40	3.03	4.15	6.36	7.67	9.61	12.03	14.99	19.39	21.04
4 1/2	2.69	3.13	4.34	6.85	8.50	10.88	12.45	15.38	—	—
5	3.01	3.42	4.65	7.28	9.72	10.88	12.61	16.69	21.49	23.48
6	3.37	3.63	4.91	7.50	11.01	11.63	13.52	16.73	22.91	24.82
7	—	4.32	5.45	8.54	11.08	13.32	15.20	18.25	24.80	26.95
8	—	5.93	6.88	9.12	11.76	14.49	15.49	18.53	26.51	32.54
9	—	6.25	7.17	10.01	12.87	15.62	16.70	23.90	32.70	—
10	—	6.29	7.42	10.92	14.02	16.75	20.38	23.62	34.80	37.80
11	—	6.36	7.95	12.17	15.63	21.49	22.77	26.92	—	—
12	—	6.85	8.42	12.24	17.01	20.88	22.74	28.49	37.75	41.09
14	—	8.22	10.04	15.75	19.88	24.05	26.80	31.62	44.88	46.52
15	—	9.50	12.92	18.14	22.93	26.07	28.18	33.67	—	—
16	—	10.45	13.08	17.29	22.79	27.28	29.55	35.10	50.53	52.35
17	—	12.11	14.03	19.75	25.11	30.44	31.62	36.44	—	—
18	—	11.59	14.72	19.32	24.71	29.18	32.72	40.36	53.01	59.80
19	—	13.52	15.77	21.72	27.44	32.36	34.38	40.84	—	—
20	—	15.71	16.24	23.63	28.67	31.77	38.14	41.03	63.16	64.37
21	—	15.86	17.25	23.89	29.66	35.60	40.49	50.93	—	—
22	—	15.99	17.86	24.58	32.16	35.08	39.07	—	—	—
23	—	17.56	18.07	24.82	34.14	41.79	—	—	—	—
24	—	17.68	19.82	25.42	45.19	47.90	49.82	51.14	72.21	—

Copper Tubing Size (O.D.), in.	Insulation Thickness, Inches					
	1/2	1	1 1/2	2	2 1/2	3
3/8 & 1/2	\$1.05	\$1.27	\$2.41	\$3.74	—	—
1 1/8	1.19	1.39	2.42	3.86	—	—
1 3/8	1.23	1.49	2.59	4.11	\$4.83	\$6.73
1 1/2	1.31	1.61	2.82	4.34	5.00	6.87
2	1.61	1.88	3.25	4.77	5.85	7.77
2 1/8	1.69	2.14	3.49	5.14	6.35	8.08
3	1.89	2.29	3.65	5.45	7.08	8.59
3 1/8	—	2.48	4.00	5.91	7.71	9.48
4	2.40	3.03	4.15	6.36	8.13	10.18
5	—	3.42	4.65	7.28	9.71	11.52
6	—	3.63	4.91	7.50	11.66	12.33

Standard Stock Product  
MTO (7 Day Lead Time)

## 10. Contractor Registration

### Waco Inc. Licenses, Certifications, & Memberships

10. Contractor Registration - Waco Inc. Licenses, Certifications, & Memberships

RFP Reference Section:

Page 1. Section I. Paragraph 2

Contractors shall be licensed and experienced in the removal and appropriate legal disposal of asbestos and/or lead and/or other incidental hazardous or special containing materials for future, yet-to-be-determined renovation/improvement projects at various locations at James Madison University, an agency of the Commonwealth of Virginia.

10. Contractor Registration - Waco Inc. Licenses, Certifications, & Memberships  
 RFP Reference Section:  
Page 1, Section I, Paragraph 2

As required by this RFP, Waco Inc. is a licensed General Contractor in the State of Virginia. As required by the RFP, we are a licensed Asbestos Abatement Contractor and Lead Abatement Contractor. Waco Inc. also holds a Federal Restoration, Repair & Paint License. During the time that the State of Virginia had a Mold Remediation licensing requirement, Waco Inc. held that license as well.

Many of Waco Inc. employees are trained and have physicals that allow us to provide BioHazard CleanUp. Additionally, we hold a Virginia permit that allows for the transportation of biohazard waste.

Waco Inc. is a qualified member of the National Air Duct Cleaning Association. Several of our employees have completed NADCA testing and hold the NADCA Air Systems Cleaning Specialist (ASCS) certification. In addition to Virginia, Waco Inc. holds General Contractor and other licenses in the States of Maryland, West Virginia, Tennessee, North Carolina and South Carolina.

## Applicable License Recap

Virginia General Contractor - Class A	2701007061
Additional Licensed Specialties:	
Asbestos	Building
Gas Fitting	HVAC
Lead Abatement	Plumbing
	Electrical
	Highway / Heavy
Virginia Asbestos Contractor	3306000065
Virginia Lead Contractor	3358000002
USA EPA Lead Safe RRP	NAT-28080-2
National Air Duct Cleaning Association	Member Since 2001
Indoor Air Quality Association	Member ID# 593

**DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
COMMONWEALTH OF VIRGINIA**

3980 Mayland Dr., Suite 400, Richmond, VA 23238  
Telephone: (804) 367-8500

BOARD FOR CONTRACTORS  
CLASS A CONTRACTOR  
'CLASSIFICATIONS' ASB BLD ELE GFC I/H HVA LAC PLE

WACO INC  
PO BOX 829  
SANDSTON, VA 23150

NUMBER:  
2701007061

  
*James W. DeBerry*  
 Governor

EXPIRES ON  
04-31-2017

REPRODUCTION OF THIS DOCUMENT, USE AFTER DESTRUCTION OF THE ORIGINAL IS PROHIBITED.  
THIS NOTICE SHALL BE ON THE REVERSE SIDE OF THIS DOCUMENT. ID: 17-010-00-00-01

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COMMONWEALTH OF VIRGINIA  
CLASS A BOARD FOR CONTRACTORS  
CONTRACTOR

CLASSIFICATIONS ASB BLD ELE GFC I/H HVA LAC PLE  
NUMBER: 2701007061 EXPIRES: 04-31-2017

WACO INC  
PO BOX 829  
SANDSTON, VA 23150

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
3980 Mayland Dr., Suite 400, Richmond, VA 23238

## United States Environmental Protection Agency

This is to certify that



has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint renovation, repair, and painting activities pursuant to 40 CFR Part 745.89

**In the Jurisdiction of:**

All EPA Administered States, Tribes, and Territories

This certification is valid from the date of issuance and expires May 16, 2020

NAT-28080-2  
Certification #  
February 05, 2015  
Issued On

*Michelle Price*

Michelle Price, Chief  
Lead, Heavy Metals, and Inorganics Branch



DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
COMMONWEALTH OF VIRGINIA

EXPIRES ON  
07-31-2015

5950 Mayland Dr., Suite 400, Richmond, VA 23233  
Telephone: (804) 367-8500

NUMBER  
3306000065

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS  
ASBESTOS CONTRACTOR LICENSE

WACO INC  
PO BOX 829  
SANDSTON, VA 23150



*James W. DeBorja*  
By: James W. DeBorja

ALTERNATION OF THE OWNERS, USE, OR ADDRESS OR CHANGE OF THE NAME OR CLASS OF THE LICENSE MUST BE FILED WITH THE ORIGINAL REGISTRATION UNDER THE CODE OF VIRGINIA.

(SEE REVERSE SIDE FOR NAME AND/OR ADDRESS CHANGE)

POCKET CARD: COMMONWEALTH OF VIRGINIA  
BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS  
ASBESTOS CONTRACTOR LICENSE  
NUMBER: 3306000065 EXP FEB: 07-31-2015

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
5950 Mayland Dr., Suite 400, Richmond, VA 23232

WACO INC  
PO BOX 829  
SANDSTON, VA 23150



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007-2015-00000065

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
COMMONWEALTH OF VIRGINIA

EXPIRES ON  
10-31-2015

5950 Mayland Dr., Suite 400, Richmond, VA 23233  
Telephone: (804) 367-8500

NUMBER  
3358000002

BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS  
LEAD ABATEMENT CONTRACTOR LICENSE

WACO INC  
WACO INC  
PO BOX 829  
SANDSTON, VA 23150



*James W. DeBorja*  
By: James W. DeBorja

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(SEE REVERSE SIDE FOR NAME AND/OR ADDRESS CHANGE)

POCKET CARD: COMMONWEALTH OF VIRGINIA  
BOARD FOR ASBESTOS, LEAD, AND HOME INSPECTORS  
LEAD ABATEMENT CONTRACTOR LICENSE  
NUMBER: 3358000002 EXPIRES: 10-31-2015

DEPARTMENT OF PROFESSIONAL AND OCCUPATIONAL REGULATION  
5950 Mayland Dr., Suite 400, Richmond, VA 23232

WACO INC  
WACO INC  
PO BOX 829  
SANDSTON, VA 23150



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ALTERNATION OF THE OWNERS, USE, OR ADDRESS OR CHANGE OF THE NAME OR CLASS OF THE LICENSE MUST BE FILED WITH THE ORIGINAL REGISTRATION UNDER THE CODE OF VIRGINIA.

This document certifies that

**WACO, Inc.**  
**Mt Crawford, VA USA**

Is a Regular Member in good standing for year

**07/01/14 – 06/30/15**

*Member Since – 9/25/2001*



The HVAC Inspection, Maintenance  
and Restoration Association

And has agreed to conduct its air duct cleaning business in accordance with the following mandatory Code of Ethics:

1. We will serve our customers with integrity and competence.
2. We will perform our work using source removal methods. In order to eliminate or prevent the delivery of airborne pollutants into indoor spaces through HVAC ductwork, we will remove the dust and other contaminants from the system. Thus, we pledge to administer source removal methods, cleaning the system ductwork as thoroughly as possible, before applying any coatings or treatments, including deodorizers, disinfectants, and/or sealants.
3. We will be honest and forthright about our advertising.
4. We will provide our clients with accurate inspections and evaluations of the cleanliness and physical condition of their HVAC systems, using this information to determine the type of cleaning and maintenance services required, if any.
5. We will provide only necessary and desired services to our clients, and will not use furnace/air duct cleaning as a means of selling unnecessary or unwanted products or services.
6. We will provide services only after completing the necessary bonding and licensing procedures.
7. We will utilize the services and products of those who possess specialized skills, tools, or trades not possessed by us when circumstances call for work to be done which we are unable to perform.
8. We will stay abreast of new developments in technology, tools of the trade, building codes, the Uniform Mechanical Code, and any other codes or information that directly affects our work.
9. We will require that all employees of our firm practice furnace/air duct cleaning in accordance with NADCA Guidelines and Code of Ethics.
10. We will perform our services in accordance with the current published standards of the Association. If I will be unable to clean in accordance with the NADCA standards, I agree to disclose this limitation to my customers at the point of sale, in advance of any cleaning.

The NADCA Ethics Committee shall hear and investigate charges of unethical or illegal conduct between concerned parties, and will make recommendations to the Board of Directors concerning the resolution of those charges.

NADCA President

NADCA Executive Director

NADCA

15000 Commerce Parkway • Suite C • Mt. Laurel, NJ 08054

INDOOR AIR QUALITY ASSOCIATION

# Membership Certificate

THIS DOCUMENT IS TO CERTIFY THAT

**Waco Inc.**

Membership ID #: 593

IS A MEMBER IN GOOD STANDING AND ENTITLED TO ALL RIGHTS &  
PRIVILEGES OF ASSOCIATION MEMBERSHIP  
EXPIRES 1/1/2015



Glenn E. Fellman, Executive Director

# 11. Insurance

## 11. Insurance

RFP Reference Section:

Page 8 Section VII Paragraph O

**Insurance:** By signing and submitting a bid or proposal under this solicitation, the bidder or offeror certifies that if awarded the contract, it will have the following insurance coverage at the time the contract is awarded. For construction contracts, if any subcontractors are involved, the subcontractor will have workers' compensation insurance in accordance with *§ 25 of the Rules Governing Procurement – Chapter 2, Exhibit J, Attachment 1, and 65.2-800 et. Seq. of the Code of Virginia* (available for review at <http://www.jmu.edu/procurement>). The bidder or offeror further certifies that the contractor and any subcontractors will maintain these insurance coverage during the entire term of the contract and that all insurance coverage will be provided by insurance companies authorized to sell insurance in Virginia by the Virginia State Corporation Commission.



# CERTIFICATE OF LIABILITY INSURANCE

WACO-1 OP ID: BR

DATE (MM/DD/YYYY)  
03/19/2015

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

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

PRODUCER Scott Insurance (Lynch) P O Box 10489 Lynchburg, VA 24506 Erik Koroneos - Lynchburg		CONTACT NAME: <b>Stacey W. Hall</b> PHONE (A/C, No, Ext): <b>800-365-0101</b> FAX (A/C, No): <b>434-832-2296</b> E-MAIL ADDRESS: <b>shall@scottins.com</b>	
INSURED <b>Waco, Inc.</b> <b>Tom Carswell</b> <b>PO Box 829</b> <b>Sandston, VA 23150</b>		INSURER(S) AFFORDING COVERAGE INSURER A : <b>Aspen Specialty Insurance (A)</b> NAIC # INSURER B : <b>EMPLOYERS INS CO OF WAUSAU (A)</b> 21458 INSURER C : <b>BRICKSTREET MUTUAL INS CO(A-)</b> 12372 INSURER D : <b>ARGONAUT INSURANCE CO (A)</b> 19801 INSURER E : INSURER F :	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL SUBR (NSD, WVD)	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> BIPD Ded: 50000 <input checked="" type="checkbox"/> XCU Coverage GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:		ERA9NGK15 PROFESSIONAL LIABILITY \$1,000,000 CLAIMS MADE	03/01/2015	03/01/2016	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Emp Ben. \$ 1,000,000 COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		ASC-Z51-291550-015	03/01/2015	03/01/2016	BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$		EXA9NGL15	03/01/2015	03/01/2016	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NE)	Y/N N	WCN8001214	03/01/2015	03/01/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000
D	DESCRIPTION OF OPERATIONS below	N/A	WC 928008397494	03/01/2015	03/01/2016	E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Pollution Legal		ERA9NGK14-CLAIMS MADE	03/01/2015	03/01/2016	Per claim 1,000,000
A	Contractors Poll		ERA9NGK14	03/01/2015	03/01/2016	Per claim 1,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Project: James Madison University Project #: CMB-722. 30 day notice of cancellation applies.

<b>CERTIFICATE HOLDER</b>  Commonwealth of Virginia James Madison University 752 Ott Street Harrisonburg, VA 22807		<b>CANCELLATION</b> COMOFVA SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE <i>Stacey W Hall</i>	
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ACORD 25 (2014/01)

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## 12. Additional Goods And Services

### 12. Additional Goods And Services Offered By Waco Inc.

RFP Reference Section:

Page 12 Section VIII Paragraph K

The University may acquire other goods or services that the supplier provides than those specifically solicited. The University reserves the right, subject to mutual agreement, for the Contractor to provide additional goods and/or services under the same pricing, terms, and conditions and to make modifications or enhancements to the existing goods and services. Such additional goods and services may include other products, components, accessories, subsystems, or related services that are newly introduced during the term of this Agreement. Such additional goods and services will be provided to the University at favored nations pricing, terms, and conditions.



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- Chilled Water Systems
- HVAC Systems
- Plumbing Systems
- Removable Pads

**Demolition**

- Structural
- Selective Or Complete Interior
- Underground Storage Tanks
- Contaminated Soils
- Building Separation
- Recycling

**Asbestos Abatement**

- Industrial
- Commercial
- Institutional
- Residential

**Industrial Cleaning**

- Manufacturing & Process Area
- Building Components
- Dust & Contaminates
- Chemical Byproduct Abatement
- Animal Waste Removal

**Lead and Contaminated  
Materials Abatement**

- Structural
- Building Components
- Interior & Exterior Paint
- Abrasive Cleaning
- Firing Range

**Duct & HVAC System Cleaning**

**Mold Remediation**

**PCB Ballasts Removal &  
Fluorescent Tube Disposal**

***Clean Response - Biohazard Cleanup: Crime Scenes, Suicide, Accidents***

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work speaks best for our reputation!***

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**[www.wacoinc.net](http://www.wacoinc.net)**

## 13. OSHA Citation Documentation

Department of Labor

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Establishment	Date Range	Office	State
WACO	03/30/2012 to 03/30/2015	all	VA

*Please note that inspections which are known to be incomplete will have the identifying Activity Nr shown in italic. Information for these open cases is especially dynamic, e.g., violations may be added or deleted.*

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By Date

	Activity	Opened	RBD	SR	Open	Sc	SIC	NAICS	Vio	Establishment Name
1	1020043.015	01/13/2015	0355116	VA	Planned	Complete		237110		Waco, Inc.
2	317803716	07/25/2014	0355121	VA	Complaint	Partial	1799	562910		Waco Inc
3	317745008	04/24/2014	0355124	VA	Complaint	Partial	1795	238910	1	Waco
4	317528453	03/05/2014	0355125	VA	Complaint	No Insp/Process Inactive	1799	562910		Waco Inc
5	317158723	07/12/2013	0355125	VA	Planned	Partial	1799	562910		Waco Inc
6	317110625	04/17/2013	0355112	VA	Planned	Partial	1623	237110	1	Waco Inc
7	316995901	04/08/2013	0355123	VA	Planned	Partial	1799	562910		Waco Inc.
8	316853902	01/14/2013	0355116	VA	Planned	Complete	1742	238310		Waco Inc
9	316761865	11/06/2012	0355123	VA	Planned	Partial	1795	238910		Waco Inc. Demolition Division
10	316569094	07/12/2012	0355125	VA	Prog Related	Partial	1795	238910		Waco Inc
11	316585587	06/13/2012	0355118	VA	Planned	Complete	1799	238990		Waco Inc

U.S. Department of Labor | Occupational Safety & Health Administration | 200 Constitution Ave., NW, Washington, DC 20210  
Telephone: 800-321-OSHA (6742) | TTY  
www.OSHA.gov

## 14. SDS / MSDS Product Information



## Material Safety Data Sheet

Creation Date 22-Nov-2010

Revision Date 29-Mar-2013

Revision Number 4

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Triton® X-100

**Cat No.** AC215680000; AC215680010; AC215680025; AC215680050;  
AC215682500

**Synonyms** Polyoxyethylene octylphenyl ether

**Recommended Use** Laboratory chemicals

<b>Company</b> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	<b>Entity / Business Name</b> Acros Organics One Reagent Lane Fair Lawn, NJ 07410	<b>Emergency Telephone Number</b> For information in the US, call: 001-800- ACROS-01 For information in Europe, call: +32 14 57 52 11  Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100  CHEMTREC Phone Number, US: 001-800- 424-9300 CHEMTREC Phone Number, Europe: 001- 703-527-3887
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### 2. HAZARDS IDENTIFICATION

**WARNING!**

**Emergency Overview**

Harmful if swallowed. Risk of serious damage to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Appearance** Clear

**Physical State** Liquid

**Odor** No information available

**Target Organs**

Eyes

**Potential Health Effects**

**Acute Effects**

**Principle Routes of Exposure**

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity	1.067
Solubility	No information available.
log Pow	No data available
Molecular Weight	646.85
Molecular Formula	C34 H62 O11

### 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to air. Exposure to light. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents. Strong acids. Strong reducing agents
Hazardous Decomposition Products	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> )
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Poly(oxy-1,2-ethanediyl), alpha-[4-(1,1,3,3-tetramethylbutyl)phenyl]-omega.-hydroxy-	1800 mg/kg ( Rat )	Not listed	Not listed

Irritation	Severe eye irritant
Toxicologically Synergistic Products	No information available.
<b>Chronic Toxicity</b>	
Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Mutagenic Effects	No information available.
Reproductive Effects	Experiments have shown reproductive toxicity effects on laboratory animals.
Developmental Effects	Developmental effects have occurred in experimental animals.
Teratogenicity	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated.. See actual entry in RTECS for complete information.
Endocrine Disruptor Information	

Component	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Group III Chemical	Not applicable	Not applicable

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Not listed	LC50 = 8.9 mg/L 96H	Not listed	EC50 = 26 mg/L 48h

**Persistence and Degradability** No information available  
**Bioaccumulation/ Accumulation** No information available  
**Mobility** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

**14. TRANSPORT INFORMATION**

**DOT** Not regulated  
**TDG** Not regulated  
**IATA** Not regulated  
**IMDG/MO** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	XU	X	-	-	-		X	X	X	X	X

Legend:  
X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.  
 F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.  
 N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.  
 P - Indicates a commenced PMN substance  
 R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.  
 S - Indicates a substance that is identified in a proposed or final Significant New Use Rule  
 T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.  
 XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).  
 Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.  
 Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations**

TSCA 12(b) Not applicable

**SARA 313**

Not applicable

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

Not applicable

**Clean Air Act**

Not applicable

**OSHA**

Not applicable

**CERCLA**

Not Applicable

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

Not applicable

**U.S. Department of Transportation**

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

Mexico - Grade No information available

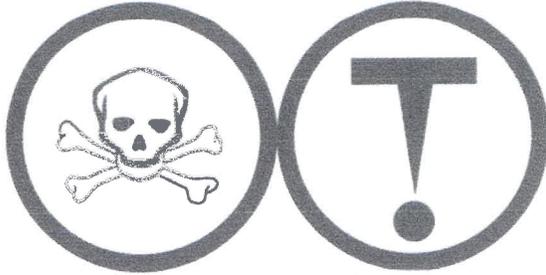
Canada

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

**WHMIS Hazard Class**

D1B Toxic materials

D2B Toxic materials



**16. OTHER INFORMATION**

**Prepared By** Regulatory Affairs  
Thermo Fisher Scientific  
Email: EMSDS.RA@thermofisher.com

**Creation Date** 22-Nov-2010

**Print Date** 29-Mar-2013

**Revision Summary** (M)SDS sections updated 14

**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS



The Procter & Gamble Company  
P&G Household Care  
Fabric & Home Care Innovation Center  
5299 Spring Grove Avenue  
Cincinnati, OH 45217-1087

## MATERIAL SAFETY DATA SHEET

MSDS #: RQ1007735r1  
Supersedes: RQ1007735

Issue Date: 05/2012

### SECTION I - PRODUCT IDENTIFICATION

**Identity:** Multi-Purpose Cleaner **Finished Product**  
**Brands:** Mr. Clean with Febreze Freshness Multi-Surface Liquid Cleaner (Meadows & Rain, Lavender Vanilla & Comfort, Hawaiian Aloha, New Zealand Springs)  
Mr. Clean with Gain Scent Multi-Surface Liquid Cleaner (Original Fresh scent, Apple Berry Twist Scent, Lavender Scent)  
**P&G Telephone Number:** 1-800-742-9220 or call Local Poison Control Center or your physician.  
**Emergency (24 hour) Telephone Number:** CHEMTREC 1-800-424-9300 U.S. and Canada,  
or 1-703-527-3887 - for calls originating elsewhere.

### SECTION II - HAZARDS IDENTIFICATION

**Potential Health Hazards:**

**Routes of exposure:** Ingestion. Inhalation. Skin contact. Eye contact.

Ingestion: May be harmful if swallowed.

Eye Contact: Mild eye irritant.

Skin Contact: Mild skin irritant.

Inhalation: N/A

**Signs and Symptoms of Exposure:**

Ingestion: Oral ingestion may result in transient system effects (ataxia and muscle weakness) and/or gastrointestinal irritation with nausea, vomiting or diarrhea. This product contains alcohol ethoxylates. Large ingestions (>2 ml/kg) may also cause symptoms of alcohol-like intoxication, lack of coordination, drowsiness, inarticulateness or ataxia. Alcohol ethoxylates may contribute to central nervous system symptoms. Possible mild gastrointestinal irritation with nausea, vomiting and/or diarrhea. Large ingestions may cause temporary dizziness, lack of coordination and headache.

Eye Contact: Instillation into the eye may result in transient superficial effects similar to those produced by mild toilet soaps and detergents.

Skin Contact: Use on irritated or extremely dry skin may aggravate the existing condition.

Inhalation: N/A

Medical Conditions Generally Known to be Aggravated by Exposure: N/A

**Potential Environmental Effects:** See Section 12 for more information.

**SECTION III - COMPOSITION AND INGREDIENTS**

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200, and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Alcohol ethoxylates		68439-46-3	1-5%	LD50 (rat, oral) = 200-2000 mg/kg

**SECTION IV - FIRST AID INFORMATION****First Aid Procedures:**

**Ingestion:** Drink 1-2 glasses of water and call a physician or poison control center (product contains alcohol ethoxylates). Do not induce vomiting unless they tell you to do so.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice if irritation persists.

**Skin:** Thoroughly wash exposed area with soap and water and discontinue use. Remove contaminated clothing. If irritation persists, call a physician.

**Inhalation:** Remove to fresh air.

**Note to Physician:** (if applicable): N/A

**Other:** Consumer product package has the following precautionary statement: "**CAUTION: EYE IRRITANT. KEEP OUT OF REACH OF CHILDREN.** Avoid contact with eyes. If in eyes, hold eyes open and rinse gently with water for 15-20 minutes. If wearing contacts, remove lenses after first 5 minutes and continue rinsing. If irritation persists, call a physician. If swallowed, drink 1-2 glasses of water and call a physician or poison control center (product contains alcohol ethoxylates) — do not induce vomiting unless they tell you to do so. Have the product container or label with you when calling or going for treatment.

**SECTION V - FIRE FIGHTING INFORMATION**

**Flash Point (Method Used):** >200°F / >93.3°C (ASTM D-93 Pensky-Martens Closed Cup).

**Flammable Properties:**

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

**Explosive Limits:** UEL: N/A LEL: N/A

**Auto-ignition Temperature:** N/A

**Hazardous Combustion Products:** None known.

**Explosion Data (Sensitivity to Mechanical Impact):** N/A

**Explosion Data (Sensitivity to Static Discharge):** N/A

**Extinguishing Media:**

Suitable: CO<sub>2</sub>, water, dry chemical or "alcohol" foam. Use water to keep fire-exposed container cool.

Unsuitable: N/A

**Protection of Firefighters:**

Specific Hazards Arising from the Material: None

Protective Equipment and Precautions for Firefighters: No unusual precautions necessary.

### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** See Section VIII below.

**Environmental Precautions:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Do not landfill. Small (household) quantities may be disposed of via sewer with large quantities of water. Incineration is preferred where permitted.

**Methods for Containment:** Prevent spills from reaching a waterway.

**Methods for Cleanup:** Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak. Absorb spilled product onto absorbent material.

**Other information:** (if applicable) N/A

### SECTION VII - HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Handle in a well ventilated, cool and dry area.

**Precautions To Be Taken in Storage:** Storage must be in a well ventilated, cool and dry area.

### SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:** N/A

**Engineering Controls:**

**Ventilation Mechanical (General):** Normal/general dilution ventilation is acceptable.

**Personal Protective Equipment (PPE):**

**Eye/Face Protection:** None required with normal consumer use. *Occupational Setting:* For splash protection, use chemical goggles. Eye Wash fountain is desirable.

**Skin Protection:** None required with normal consumer use. *Occupational Setting:* Protective gloves (rubber, neoprene) should be used for prolonged direct contact. **Respiratory Protection:** None required with normal use.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (color, physical form, shape):**  
Colored liquids (blue, red, pinkish/purple and orange). Packaged in a pourable plastic bottle.

**Odor:** Products are perfumed.

**Odor Threshold:** N/A

**Physical State:** Liquid.

**Vapor Pressure (mm Hg):** N/A

**Vapor Density (Air=1):** N/A

**Boiling Point:** N/A

**Partition Coefficient (n-octanol/water):** N/A

**Volatile Organic Compound (VOC):** Products comply with US State and Federal regulations for VOC content.

**Flash Point (Method Used):** >200°F / >93.3°C (ASTM D-93 Pinsky-Martens Closed Cup.)

**Reserve Alkalinity:** N/A

**Solubility in Water:** Completely

**Decomposition Temperature:** N/A

**Evaporation Rate (nBuOAc=1):** Unknown

**Specific Gravity/Density:** 1.019 g/cm<sup>3</sup>

**Melting/Freezing Point:** N/A

**pH (neat):** 9.5

### SECTION X - STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** None known.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** None known.

**Hazardous Polymerization:** None known.

**SECTION XI - TOXICOLOGICAL INFORMATION**

**Chronic Effects:** No chronic health effects reported.  
**Target Organs:** No target organs reported.  
**Carcinogenicity:** This finished consumer product is not carcinogenic.

NTP: No  
IARC: No

*All product ingredients were checked for NTP and IARC carcinogen listings relevant to this product formulation.*

**SECTION XII - ECOLOGICAL INFORMATION**

**Environmental effects:** No concerns at relevant environmental concentrations.

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Disposal is to be performed in compliance with federal, state/provincial and local regulations.

*Non-Household Setting (US Federal):* Products covered by this MSDS, in their original form, when disposed as waste, are considered non-hazardous waste according to Federal RCRA regulations (40 CFR 261).

California Hazardous Waste: Yes

*Household Use:* Consumers may dispose of small (household) quantities down the drain with large quantities of water. Discard empty container in trash or rinse and recycle container where facilities exist.

**SECTION XIV - TRANSPORT INFORMATION**

**Ground Transport (US DOT):** Not regulated.  
**Air Transport (IATA):** Not regulated.  
**Marine/Water Transport (IMDG):** Not regulated.

**SECTION XV - REGULATORY INFORMATION**

**United States**  
All intentionally-added components of these products are listed on the US TSCA Inventory.  
SARA 313/302/304/311/312 chemicals: None.  
*California:* These products have been evaluated and do not require warning labeling under California Proposition 65.  
California Registration Number: N/A

**State Right-to-Know and CERCLA:**  
The following ingredients present in the finished products at >1% (or 0.1% for carcinogens) are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS#	CERCLA RQ	Max Level	State				
				IL	MA	NJ	PA	RI

**Canada**  
All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

**SECTION XVI - OTHER INFORMATION**

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

<b>P&amp;G Hazard Ratings:</b>	<b>Health: 1</b>	<b>4 = EXTREME</b>
	<b>Flammability: 0</b>	<b>3 = HIGH</b>
	<b>Physical hazard: 0</b>	<b>2 = MODERATE</b>
		<b>1 = SLIGHT</b>
		<b>0 = NOT SIGNIFICANT</b>

\*N/A. - Not Applicable

\*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

**DISCLAIMER:** This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

**Material Safety Data Sheet**  
**GREASED LIGHTNING® MULTI-PURPOSE CLEANER & DEGREASER**

Version: 1.0

Revision Date: 12/20/2011

Print Date: 02/16/2012

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: *GREASED LIGHTNING® MULTI-PURPOSE CLEANER & DEGREASER*

Product Use Description: Home Care Product

Company: HomeCare Labs, Inc.  
P.O. Box 491150  
Lawrenceville, GA  
30049-1002

Telephone: (800) 949-7946

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300, 703-527-3887  
Poison Control Center (Medical) :: (877) 800-5553

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department  
(US) +1 866-430-2775

12/20/2011  
MSDSRequest@chemtura.com

**SECTION 2. HAZARDS IDENTIFICATION**

**Emergency Overview**

**Danger**

Form: liquid      Colour: clear      Odour: Clean, fresh fragrance

**Hazard Summary** : Eye burns may occur.  
Causes eye irritation.  
Harmful if swallowed.  
Harmful by inhalation.  
Causes skin irritation.

**OSHA Hazards** : IRRITANT

**Potential Health Effects**

**Primary Routes of Entry** : Eye contact  
Inhalation  
Ingestion  
Skin contact

**Inhalation** : Harmful if inhaled

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Causes respiratory tract irritation.

**Skin** : Causes skin irritation.

**Eyes** : Eye burns may occur.  
Causes eye irritation.

**Ingestion** : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Chronic Exposure** : None known.

**Carcinogenicity:**

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**ACGIH** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous components**

Component / CAS-No.	Weight percent
(2-methoxymethylethoxy)propanol 34590-94-8	< 5 %

**SECTION 4. FIRST AID MEASURES**

**First aid procedures**

**Inhalation** : Remove person to fresh air. If signs/symptoms continue, get medical attention. Call a physician or poison control centre immediately.

**Skin contact** : Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Eye contact** : Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a physician or poison control centre immediately.

**Ingestion** : If swallowed, DO NOT induce vomiting. Drink 1 or 2 glasses of water. Call a physician or poison control centre immediately.

**SECTION 5. FIREFIGHTING MEASURES**

**Flammable properties**

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Flash point : 200 °F (93 °C)

**Fire fighting**

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

Further information : There are no unusual fire and explosion hazards known.

**Protective equipment and precautions for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled material.  
 Clean-up methods - small spillage  
 Flush with plenty of water.  
 Clean-up methods - large spillage  
 Soak up with inert absorbent material.  
 Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.

Additional advice : Treat recovered material as described in the section "Disposal considerations".

**SECTION 7. HANDLING AND STORAGE**

**Handling**

Handling procedures : Avoid contact with mucous membranes.  
 Avoid contact with skin, eyes and clothing.  
 Mix only with water.  
 Do not mix with other chemicals.  
 Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.  
 Do not handle until all safety precautions have been read and understood.

**Storage**

Requirements for storage areas and containers : Store in original container.  
 Store in a cool, dry, well ventilated area away from heat or open flame.  
 Keep out of reach of children.  
 Keep away from animals.

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

**Exposure Guidelines**

**Components with workplace control parameters**

Components / CAS-No	Value / Basis /	Control	Further information
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	Update	parameters	
(2-methoxymethylethoxy)propanol 34590-94-8	TWA	100 ppm	
	ACGIH 2007-01-01		
	STEL	150 ppm	
	ACGIH 2007-01-01		
	TWA	100 ppm 600 mg/m3	
	OSHA P1 1997-08-04		
	TWA	100 ppm 600 mg/m3	
	OSHA P0 1989-01-19		
	STEL	150 ppm 900 mg/m3	
	OSHA P0 1989-01-19		
2,2'-iminodiethanol 111-42-2	TWA	3 ppm 15 mg/m3	
	OSHA P0 1989-01-19		
	TWA	1 mg/m3	
	ACGIH 2009-01-01		

**Engineering measures**

Engineering measures : Use with adequate ventilation.  
 Not expected to present a significant inhalation hazard under anticipated conditions of normal use.  
 Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protective equipment**

Eye protection : Safety glasses with side-shields

Hand protection : Wear rubber gloves.

Respiratory protection : No personal respiratory protective equipment normally required.  
 If product is used in an area with poor ventilation and mist or vapor is expected, a respirator that meets OSHA/ANSI standards may be required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
 Remove and wash contaminated clothing before re-use.  
 Wash thoroughly after handling.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form : liquid  
Colour : clear  
  
Odour : Clean, fresh fragrance

**Safety data**

Flash point : 200 °F (93 °C)  
pH : 12.8  
Freezing point : Note: Not Available  
Boiling point/boiling range : 213.1 °F (100.6 °C)  
Vapour pressure : Note: Not Available  
Density : 0.995 - 1.015 g/cm<sup>3</sup>  
Water solubility : 100 g/l  
Relative vapour density : Note: Heavier than air  
Evaporation rate : Note: Equal to water

**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid : Remarks: High temperatures.  
Poor ventilation.  
Contamination  
  
Materials to avoid : Remarks: Ammonia  
Chlorine bleach  
Oxidizing agents  
Other chemicals  
  
Hazardous decomposition products : Note: Carbon oxides  
Hazardous reactions : Hazardous polymerisation does not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity  
(2-methoxyethyl ethoxy)propyl alcohol : LD50: > 2,000 mg/kg  
Species: rat

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Not recommended for shipment by air  
Limited Quantity exemption possible

**SECTION 15. REGULATORY INFORMATION**

**OSHA Hazards** : Irritant  
**SARA 302 Reportable Quantity** :  
**SARA 311/312 Hazards** : Acute Health Hazard

**EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

**SARA 302 Reportable Quantity** :  
**SARA 304 Components** : This material does not contain any components with a section 304 EHS RQ.

**Massachusetts Right To Know Components** : (2-methoxymethylethoxy)propanol 34590-94-8 OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z. ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances CERCLA hazardous substances. 40 cfr part 302. May be subject to emergency release notification under SARA Title III.  
dodecylbenzenesulphonic acid 27176-87-0 CERCLA hazardous substances. 40 cfr part 302. May be subject to emergency release notification under SARA Title III.

**Pennsylvania Right To Know Components** : water 7732-18-5  
(2-methoxymethylethoxy)propanol 34590-94-8 OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z. ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances CERCLA hazardous substances. 40 cfr part 302. May be subject to emergency release notification under SARA Title III.  
dodecylbenzenesulphonic acid 27176-87-0 CERCLA hazardous substances. 40 cfr part 302. May be subject to emergency release notification under SARA Title III.

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sodium hydroxide 1310-73-2 OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z.  
ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances  
NFPA49 national fire protection association 'hazardous chemicals data' substances (NFPA 49).  
CERCLA hazardous substances, 40 cfr part 302. May be subject to emergency release notification under SARA Title III.  
Toxic chemical release substances, 52 fr 21152 (6/4/87). Subject to SARA Title III.

2,2'-iminodiethanol 111-42-2 ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances  
Toxic chemical release substances, 52 fr 21152 (6/4/87). Subject to SARA Title III.

**New Jersey Right To Know Components**

: water 7732-18-5

(2-methoxymethylethoxy)propanol 34590-94-8 OSHA a. United states occupational safety and health administration substances, 29 cfr 1910.1000, sub part z.  
ACGIH American conference of governmental industrial hygienists threshold limit value (TLV) substances  
CERCLA hazardous substances, 40 cfr part 302. May be subject to emergency release notification under SARA Title III.

dodecylbenzenesulphonic acid 27176-87-0 CERCLA hazardous substances, 40 cfr part 302. May be subject to emergency release notification under SARA Title III.

**California Prop. 65 Components**

: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16. OTHER INFORMATION**

**Further information**

**HMIS Classification**

: Health hazard: 3  
Flammability: 1  
Physical hazards: 0

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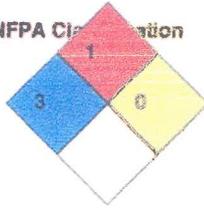
**Material Safety Data Sheet**  
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**NFPA Classification**



Health hazard: 3  
 Fire Hazard: 1  
 Reactivity Hazards: 0

**Other Emergency Phone Number**

<u>Latin America</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico</u>		+52 555 004 8763

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



# SAFETY DATA SHEET

Issue Date 27-Apr-2006

Revision Date 31-May-2013

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** Control Low Odor Mastic Remover

**Other Means of Identification**

**SDS #** GI-006

**UN/ID No** NA1993  
**Product Code** 19105

**Recommended Use of the Chemical and Restrictions on Use**

**Recommended Use** Mastic remover.

**Details of the Supplier of the Safety Data Sheet**

**Supplier Address**  
 Grayling Industries, Inc.  
 1008 Branch Drive  
 Alpharetta, GA 30004

**Emergency Telephone Number**

**Company Phone Number** 1-800-635-1551  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
 1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Classification**

Acute toxicity - Inhalation (Vapors)	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 4

**Signal Word**

**DANGER**

**Hazard Statements**

Toxic if inhaled  
 Causes skin irritation  
 Causes serious eye irritation  
 May be fatal if swallowed and enters airways  
 Combustible liquid



**Appearance** Water white liquid

**Physical State** Liquid

**Odor** Aromatic

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep cool

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash it before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Do NOT induce vomiting  
 In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed  
 May be harmful in contact with skin

**Other Hazards**

Toxic to aquatic life with long lasting effects  
 Toxic to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Aliphatic Hydrocarbon Solvent	64742-88-7	Proprietary
2-Butoxyethanol	111-76-2	Proprietary
Naphtha (petroleum), heavy aromatic	64742-94-5	Proprietary
Ethoxylated Nonylphenol	9016-45-9	Proprietary

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**

First Aid Measures

<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
<b>Skin Contact</b>	Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if irritation occurs.
<b>Inhalation</b>	After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.
<b>Ingestion</b>	Do NOT induce vomiting. Have patient lie down and keep warm. Call a physician or poison control center immediately.

Most important Symptoms and Effects, both Acute and Delayed

<b>Symptoms</b>	Skin contact can lead to drying, defatting, itching, stinging and irritation. May cause severe irritation with redness, pain, and blurred vision. Overexposure by inhalation may cause CNS depression- drowsiness, dizziness, confusion or loss of coordination. May cause nausea, vomiting, stomach ache, and diarrhea.
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Indication of any Immediate Medical Attention and Special Treatment Needed

<b>Note to Physicians</b>	Treat symptomatically.
---------------------------	------------------------

**5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media

Use fire extinguishers with class B extinguishing agents. Carbon dioxide (CO2). Foam.

**Unsuitable Extinguishing Media** Water spray may be ineffective. If water is used, fog nozzles are preferable.

Specific Hazards Arising from the Chemical

Cool surrounding equipment, fire-exposed containers, and structures with water.

**Hazardous Combustion Products** Carbon monoxide. Carbon dioxide (CO2).

Protective Equipment and Precautions for Firefighters

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

**6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures

<b>Personal Precautions</b>	Use personal protective equipment as required.
<b>Other Information</b>	Keep unnecessary and unprotected personnel from entering.
<b>Environmental Precautions</b>	See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

<b>Methods for Containment</b>	Stop the flow of material, if this is without risk. Dike and contain spill.
<b>Methods for Cleaning Up</b>	Absorb spillage with non-combustible, absorbent material. Mop up and dispose of spilled material.

**7. HANDLING AND STORAGE**

Precautions for Safe Handling

**Advice on Safe Handling**

Avoid breathing vapors or mists. Use only with adequate ventilation. Use personal protection recommended in Section 8. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash face, hands, and any exposed skin thoroughly after handling. Do not get in eyes, on skin, or on clothing. Avoid free fall of liquid. Ground/bond container and receiving equipment. Do not flame, cut, braze weld or melt empty containers. Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store large amounts in structures made for OSHA Class IIIA liquids. Keep containers closed when not in use and upright to prevent leakage. Store locked up.

**Incompatible Materials**

Strong oxidizing agents. Permanganates. Chromates. Peroxides.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>

Appropriate Engineering Controls

**Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Showers. Eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

**Eye/Face Protection**

Wear approved safety goggles.

**Skin and Body Protection**

Use impervious gloves. An apron or other impermeable body protection is suggested. Wear suitable protective clothing and footwear appropriate for the risk of exposure.

**Respiratory Protection**

Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2).

**General Hygiene Considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Take off all contaminated clothing and wash it before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Aromatic
Appearance	Water white liquid	Odor Threshold	Not determined
Color	Water white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	174-196 °C / 346-385 °F	
Flash Point	60 °C / 141 °F	Tag Closed Cup Lowest Component
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	0.9%	
Vapor Pressure	0.5 mm Hg	@20°C
Vapor Density	5.0	(Air=1)
Relative Density (Specific Gravity)	0.807	(1=Water) @ 68°F (20°C)
Water Solubility	Appreciable	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	260 °C / 500 °F	Lowest Component
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
Additional Information	Refractive Index: 1.438	
	Mixed Aniline Point (Acid insol): 63°C/147°F	
VOC Content (%)	99%	
VOC Content	796.1 g/L	
Density	6.719 lbs/gal	

**10. STABILITY AND REACTIVITY**

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Strong oxidizing agents, Permanganates, Chromates, Peroxides.

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO2).

**11. TOXICOLOGICAL INFORMATION**

Information on Likely Routes of Exposure

**Product Information**

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation. May be harmful in contact with skin.

**Inhalation** Toxic if inhaled.

**Ingestion** May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aliphatic Hydrocarbon Solvent 64742-88-7	> 5000 mg/kg ( Rat )	= 3000 mg/kg ( Rabbit )	> 5.28 mg/L ( Rat ) 4 h
2-Butoxyethanol 111-76-2	= 470 mg/kg ( Rat )	= 2270 mg/kg ( Rat ) = 220 mg/kg ( Rabbit )	= 2.21 mg/L ( Rat ) 4 h = 450 ppm ( Rat ) 4 h
Naphtha (petroleum), heavy aromatic 64742-94-5	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 590 mg/m <sup>3</sup> ( Rat ) 4 h
Ethoxylated Nonylphenol 9016-45-9	= 1310 mg/kg ( Rat )	= 2 mL/kg ( Rabbit )	-

Information on Physical, Chemical and Toxicological Effects

**Symptoms** Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

**Carcinogenicity** Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol 111-76-2	A3	Group 3		

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)  
 A3 - Animal Carcinogen  
 IARC (International Agency for Research on Cancer)  
 Group 3 IARC components are "not classifiable as human carcinogens"  
 Aspiration Hazard May be fatal if swallowed and enters airways.

Numerical Measures of Toxicity

Not determined

**12. ECOLOGICAL INFORMATION**

Ecotoxicity

Toxic to aquatic organisms Toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Aliphatic Hydrocarbon Solvent 64742-88-7	450: 96 h Pseudokirchneriella subcapitata mg/L EC50	800: 96 h Pimephales promelas mg/L LC50 static		100: 48 h Daphnia magna mg/L EC50
2-Butoxyethanol 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
Naphtha (petroleum), heavy aromatic 64742-94-5	2.5: 72 h Skeletonema costatum mg/L EC50	19: 96 h Pimephales promelas mg/L LC50 static 2.34: 96 h Oncorhynchus mykiss mg/L LC50 1740: 96 h Lepomis macrochirus mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through 41: 96 h Pimephales promelas mg/L LC50		0.95: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
2-Butoxyethanol 111-76-2	0.8
Naphtha (petroleum), heavy aromatic 64742-94-5	2.9 - 6.1

Other Adverse Effects

Not determined

**13. DISPOSAL CONSIDERATIONS**

Waste Treatment Methods

- Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION**

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. DOT Ground - "Non-bulk shipments may be non-regulated per 49CFR 173.150(f)(2)".

DOT

UN/ID No NA1993  
 Proper Shipping Name Combustible liquid, n.o.s. (Petroleum distillates)  
 Hazard Class Comb Liq  
 Packing Group III

IATA

Not regulated

IMDG

Not regulated

**15. REGULATORY INFORMATION**

International Inventories

TSCA Listed  
 DSL Listed  
 EINECS Listed  
 ENCS Listed  
 KECL Listed  
 AICS Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 311/312 Hazard Categories

Acute health hazard Yes  
 Chronic Health Hazard Yes  
 Fire hazard Yes

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	111-76-2	Proprietary	1.0

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Aliphatic Hydrocarbon Solvent 64742-88-7	X		
2-Butoxyethanol 111-76-2	X	X	X

**16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	2	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	2	0	Not determined

Issue Date 27-Apr-2006  
 Revision Date 31-May-2013  
 Revision Note New format

**Disclaimer**

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End of Safety Data Sheet

## 15. Waco Inc. Universal Asbestos Abatement Plan

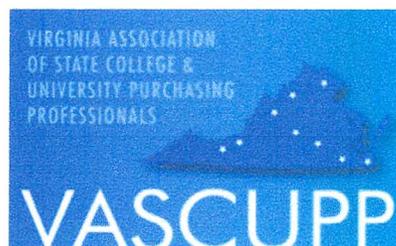


**James Madison University**  
**Asbestos Abatement Services**

**Universal**  
**Contract Abatement Plan**

*Applicable To All Projects Performed*

**RFP CMB-772**



College of William and Mary  
George Mason University  
James Madison University  
Old Dominion University  
Radford University  
The University of Virginia  
Virginia Commonwealth University  
Virginia Military Institute  
Virginia Tech

**I. WACO INC. CONTACT INFORMATION:**

<b>NAME</b>	<b>WACO INC.</b>
<b>ADDRESS</b>	<b>844 Cottontail Trail</b>
<b>ADDRESS</b>	<b>Mt. Crawford, VA 22841</b>
<b>CONTACT</b>	<b><u>Bobby Taylor - Project Manager</u></b>
<b>Office</b>	<b>(540) 434-7390</b>
<b>Mobile</b>	<b>[REDACTED]</b>
<b>Email</b>	<b>btaylor@wacoinc.net</b>
<b>CONTACT</b>	<b><u>Paul Fry - Superintendent</u></b>
<b>Office</b>	<b>(540) 434-7390</b>
<b>Mobile</b>	<b>[REDACTED]</b>
<b>Email</b>	<b>pfry@wacoinc.net</b>
<b>CONTACT</b>	<b><u>Larry Battaile - Vice President</u></b>
<b>Office</b>	<b>(540) 434-7390</b>
<b>Mobile</b>	<b>[REDACTED]</b>
<b>Email</b>	<b>lbattaile@wacoinc.net</b>

**TESTING LABORATORY:** **Air Sample Analysis**

<b>NAME</b>	<b>Ameri Sci</b>
<b>ADDRESS</b>	<b>13635 Genito Road</b>
<b>ADDRESS</b>	<b>Midlothian Virginia 23112</b>
<b>CONTACT</b>	<b>Cory Parnell</b>
<b>Office</b>	<b>(804) 763-1200</b>
<b>Email</b>	<b>CParnell@amerisci.com</b>

**LANDFILL:** **Asbestos Containing Material Disposal**

<b>NAME</b>	<b>H.A.M Landfill</b>
<b>ADDRESS</b>	<b>519 Roy Martin Road</b>
<b>ADDRESS</b>	<b>Peterstown, WV 24963</b>
<b>CONTACT</b>	<b>Bonnie Lilly</b>
<b>Office</b>	<b>(304) 753-9470</b>
<b>Email</b>	<b>hamlandfill@wvva.net</b>

## II. KEY PERSONNEL

CONTACT	<u>Bobby Taylor - Project Manager</u>
Office	(540) 434-7390
Mobile	[REDACTED]
Email	btaylor@wacoinc.net
CONTACT	<u>Paul Fry - Superintendent</u>
Office	(540) 434-7390
Mobile	[REDACTED]
Email	pfry@wacoinc.net
CONTACT	<u>Larry Battaile - Vice President</u>
Office	(540) 434-7390
Mobile	[REDACTED]
Email	lbattaile@wacoinc.net
CONTACT	<u>Scott Harper - Foreman</u>
Mobile	[REDACTED]
Email	sharper@wacoinc.net
CONTACT	<u>Adam Myers - Foreman</u>
Mobile	[REDACTED]
Email	amyers@wacoinc.net
CONTACT	<u>Michael Norton - Foreman</u>
Mobile	[REDACTED]
Email	mnorton@wacoinc.net
CONTACT	<u>Hector Pacheco - Foreman</u>
Mobile	[REDACTED]
Email	hpacheco@wacoinc.net

*Owner's request for a specific foreman will be honored if at all possible.*

### III. APPLICABLE PUBLICATIONS:

#### CODE OF FEDERAL REGULATIONS (CFR):

29 CFR 1910.1001	General Industry Safety and Health Standards
29 CFR 1910.132	Personal Protective Equipment
29 CFR 1910.134	Respiratory Protection
29 CFR 1910.145	Specifications for Accident Prevention Signs & Tags
29 CFR 1910.146	Confined Space Standard
29 CFR 1910.151	Medical and First Aid
29 CFR 1910.35 & 36	Means of Egress
29 CFR 1910.1020	Access to Employee Exposure and Medical Records
29 CFR 1910.1200	Hazard Communication
29 CFR 1926	Construction Industry
29 CFR 1926.1101	Construction Standard for Asbestos
40 CFR 61, Subpart A	General Provisions
40 CFR 61, Subpart M	National Emission Standard for Asbestos
49 CFR 173.1090	Transportation of Asbestos

#### AMERICAN NATIONAL STANDARD INSTITUTE (ANSI):

Z9.2-79	Fundamentals Governing the Design and Operation of Local Exhaust Systems
Z88.2-80	Practice for Respiratory Protection

#### AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

D 1331-56(80)	Surface and Interfacial Tension of Solutions of Surface-Active Agents
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#### UNDERWRITERS LABORATORIES, INC. (UL):

586-85	High-Efficiency, Particulate, Air Filter Units
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#### STATE REGULATIONS:

16VAC25-20	Regulation Concerning Licensed Asbestos Contractor Notification, Asbestos Project Permits, and Permit Fees
16 VAC 25-30-10	Regulations for Asbestos Emission standards for demolition and renovation construction activities and the disposal of asbestos containing construction wastes
Code of VA 54.1	Asbestos, Lead, and Home Inspection Contractors and Workers (54.1-500 thru 54.1-517.3)

#### **IV. COMPLIANCE WITH REGULATIONS**

**The Work, including contact with or handling of hazardous materials, disturbance or dismantling of structures containing hazardous materials, and disposal of hazardous materials, shall comply with the applicable Federal, State and Local regulations and project specifications.**

#### **V. HAZARD COMMUNICATION**

**Waco Inc. has a written Hazard Communication (HazCom) Program. Our HazCom Program is consistent with the requirements of 29 CFR 1910.1200. The purpose of the HazCom Program is to ensure that the hazards of all chemicals produced or imported are classified, and that information concerning the classified hazards is transmitted to employers and employees. Our goal is to be consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Revision 3. The Waco Inc. HazCom plan includes information on container labeling and other forms of warning, safety data sheets and employee training requirements**

#### **VI. EMERGENCY ACTION PLAN AND ARRANGEMENTS**

**An Emergency Action Plan shall be developed prior to commencing abatement activities. The Plan shall meet the requirements of 29 CFR 1910.38 (a); (b). Employees shall be trained in regulated area/site evacuation procedures in the event of workplace emergencies.**

- 1. For non life-threatening situations - employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the regulated area to obtain proper medical treatment.**
- 2. For life-threatening injury or illness, worker decontamination shall take least priority after measures to stabilize the injured worker, remove them from the regulated area, and secure proper medical treatment.**
- 3. Telephone numbers of any/all emergency response personnel shall be prominently posted in the clean room.**

## **VII. WORK COVERED BY CONTRACT DOCUMENTS**

The work consists of the specific scope of work as detailed in the request for quotation for the identified project. Work may include, but not be limited to:

- A. Asbestos Abatement**
- B. Lead Abatement**
- C. Mold Remediation**
- D. PCB Ballast Removal**
- E. Florescent Tube Disposal / Crushing**
- F. Guano Clean Up**
- G. BioHazard Clean Up - Bloodborne Pathogen Control**
- H. HVAC System / Duct Cleaning**
- I. Selective / Structural Demolition**
- J. Specialty Construction Needs & Other Requirements**

## **VIII PERIOD OF PERFORMANCE**

The period of performance for each project will be established in the request for quotation and identified in the specific project documents. Waco Inc. shall commence performance of the work as scheduled with the Owner and after the receipt of the Notice to Proceed. Waco Inc. shall achieve contract completion, as required by each specific project.

## **IX CONSTRUCTION SERVICES PROVIDED BY WACO INC.**

Waco Inc. shall provide and pay for all labor, materials, equipment, and tools, necessary for the proper execution of the work described in and reasonably inferable from the contract documents. Upon completion of the work, the Owner shall pay Waco Inc. the quoted contract price or prices established on the Pricing Sheet, subject to the terms and conditions set forth in the contract.

## **X OWNER PROVIDED SERVICES AND UTILITIES**

Temporary utilities and services shall be provided by the Owner unless specified otherwise in the specific project plans and specifications.

Temporary utilities include but are not limited to the following:

- A. Temporary use of water service and distribution.
- B. Temporary use of electric power.

Temporary support facilities shall include the following:

- A. Temporary walkway detours.
- B. Restricted access to construction area.
- C. Temporary signs.

## **XI. WACO INC. RESPONSIBILITY**

Waco Inc. shall assume full responsibility and liability for compliance with all applicable codes, standards and regulations pertaining to the health and safety of personnel during execution of the work.

Waco shall be responsible for:

- A. Performing work in accordance with applicable federal, state, and local regulations pertaining to asbestos abatement work. These regulations include, but are not limited to, the laws of Virginia, the United States Environmental Protection Agency (US EPA) Asbestos Hazard Emergency Response Act (AHERA) as it applies to this work, the Occupational Safety and Health Administration (OSHA), and local regulations.
- B. Providing all labor, equipment, materials, and supervision to complete the project in a professional, safe, and timely fashion.
- C. Providing supervisors and workers who are competent, trained, and medically fit to conduct asbestos abatement work.
- D. Completing the project as specified in these design plans & specifications. Waco Inc. accepts that the areas will not be considered successfully abated, until final visual inspections prove that the area(s) are considered safe for re-occupancy and/or final air monitoring clearance has been achieved.

## **XII. PROTECTION OF EXISTING WORK**

Existing facilities and work which is to remain in place or which is to remain the property of the Owner shall be protected as required.

The spread of dust to occupied portions of the building will not be allowed. Necessary barriers and controls will be implemented to insure compliance with applicable regulations.

## **XIII. PROTECTION OF PERSONNEL**

Waco Inc. shall take all necessary precautions to prevent injury to the public, occupants, or damage to property of others. The public and occupants includes all persons not employed by the Waco or a subcontractor.

Wherever practical, the work area shall be fenced, barricaded or otherwise blocked off from the public or occupants to prevent unauthorized entry into the work area.

## **XIV. HOUSEKEEPING**

Waco Inc. shall maintain, at all times, good housekeeping practices to reduce the risk of personal harm, fire, and property damage. We will remove all scrap materials, rubbish, and trash daily in and about the building. We will clean the project site and work areas daily, including common areas. We will clean areas where work is in progress to the level of cleanliness necessary for proper execution of the work. Waco Inc. will containerize hazardous and unsanitary waste materials separately from other waste, marking containers appropriately and disposing of legally, according to regulations. We will utilize containers intended for holding waste materials of type to be stored.

## **XV. COMPETENT PERSON**

Waco Inc. shall provide a trained and experienced individual as the Competent Person. The Competent Person shall be responsible for the implementation and oversight/enforcement of the Waco's Accident Prevention Plan, Health and Safety Plan, and Emergency Action Plan. The Competent Person shall also ensure that Waco Inc. comply with all applicable codes, standards, regulations, and University's policies and procedures pertaining to work activities associated with the project. The Competent Person shall remain on-site while work activities are in progress. The Competent Person shall conduct daily on-site inspections of the worksite to verify compliance with the regulatory

requirements, and the Owner's policies and procedures. The Competent Person shall keep a daily log describing the following:

- A. Date of work shift
- B. Weather conditions
- C. Number of workers on site
- D. Waco Inc. subcontractors
- E. Work activities
- F. Problems and delays
- G. Record of verbal statements made, actions taken.
- H. Site safety information
- I. Remarks and observations

#### **XVI. ACCIDENT REPORTING**

In the event of a reportable accident, the Owner's representative will be notified as soon as the events at hand allow it. Copies of the accident report and other applicable documents will be provided to the Owner upon request.

#### **XVII. TRAINING AND ACCREDITATION**

All persons performing asbestos management activities shall be accredited by the Virginia Department of Labor and Industry in the appropriate accreditation category. All applicants for accreditation must meet the provisions of the "Environmental Protection Agency Model Contractor Accreditation Plan" contained in 40 CFR 763 (Subpart E, appendix C).and in accordance with OSHA 29 CFR 1926.1101 (k)(9).

#### **XVIII. ASBESTOS SUPERVISOR / WORKER TRAINING SUBMITTALS**

WACO INC. is submitting a copy of the Training Certificate for each employee which documents that the employee has successfully completed the required training class as required. Training documentation for additional employees used on the project will be provided in the final submittal package upon the completion of the project.

## **XIX. MEDICAL REQUIREMENTS**

Before exposure to airborne asbestos fibers, asbestos workers shall be furnished with a comprehensive medical examination as required by 29 CFR 1926.1101. Complete and accurate records of employees medical examinations, medical records and exposure measurements shall be maintained as required by 29 CFR 1926.1101 for a period of 30 years after termination of employment. A current physician's written opinion as required by 29 CFR 1926.1101 (m)(4) shall be provided for each person and shall include in the medical opinion the person has been evaluated for working in a heat and cold stress environment while wearing personal protective equipment (PPE) and is able to perform the work without risk of material health impairment.

## **XX. RESPIRATOR PROGRAM**

WACO INC. has established and implemented a respirator program as required by ANSI Z88.2 and 29 CFR 1910.134. Respirators shall be approved by the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services, for use in atmospheres containing asbestos fibers. All personnel wearing respirators shall have a current quantitative fit test which was conducted in accordance with 29 CFR 1910.134 (f). The Competent Person shall assure that the positive/negative pressure user seal check is done each time the respirator is donned by an employee. Head coverings must cover respirator head straps. Any situation that prevents an effective facepiece to face seal as evidenced by failure of a user seal check shall preclude that person from wearing a respirator inside the regulated area until resolution of the problem.

## **XXI. PROJECT MONITOR**

The Owner may provide a project monitor to inspect the project site and/or monitor airborne asbestos levels. The Owner's project monitor will be responsible for final visual inspections and final air samples unless otherwise determined in the specific project agreement.

Personal and area monitoring shall be performed on characteristic asbestos work tasks to establish the TWA during the first exposure to airborne concentrations of asbestos.

If monitoring outside the asbestos control area shows airborne concentrations greater than 0.01 fibers (longer than 5 micrometers) per cubic centimeter of air, Waco's superintendent shall stop work, correct the condition(s) causing the increase, and notify the Owner immediately.

The fiber counts from the samples shall be less than 0.01 fibers (longer than 5 micrometers) per cubic centimeter of air. Should final sampling indicate a higher value, WACO INC. shall re-clean the area and shall repeat the monitoring. Aggressive area sampling shall not be performed in areas where a complete asbestos removal was not performed.

## XXII. MONITORING RESULTS

WACO, INC. shall notify the Owner immediately of any exposure to asbestos fibers in excess of the permissible exposure limit. When requested, WACO INC. shall submit monitoring results to the Owner following the completion of the project, signed by the testing laboratory employee performing the analysis.

## XXIII. TESTING LABORATORY

All air monitoring analysis and reporting of airborne concentrations of asbestos fibers will be performed in accordance with 29 CFR 1926.58 and 40 CFR 763 by an employee of the testing laboratory which is:

NAME	Ameri Sci
ADDRESS	13635 Genito Road
ADDRESS	Midlothian, Virginia 23112
PHONE	(804) 763-1200

## XXIV. PROTECTIVE CLOTHING & EYEWARE

Provide whole body clothing, head coverings, foot coverings and any other personal protective equipment as determined by conducting the hazard assessment required by OSHA at 29 CFR 1910.132 (d). Disposable plastic or rubber gloves will be provided to protect the employees hands. Cloth gloves may be worn outside the plastic or rubber gloves for comfort but will not be used alone. Tape will be used to secure sleeves at the wrists and to secure foot coverings at the ankles. WACO INC. may elect to allow workers to wear cloth work clothes, disposable undergarments or nylon bathing suits under the disposable protective coveralls. The Competent Person shall ensure the integrity of personal protective equipment worn for the duration of the project. Waco Inc. shall provide goggles to personnel engaged in asbestos operations where we do not use a full face respirator.

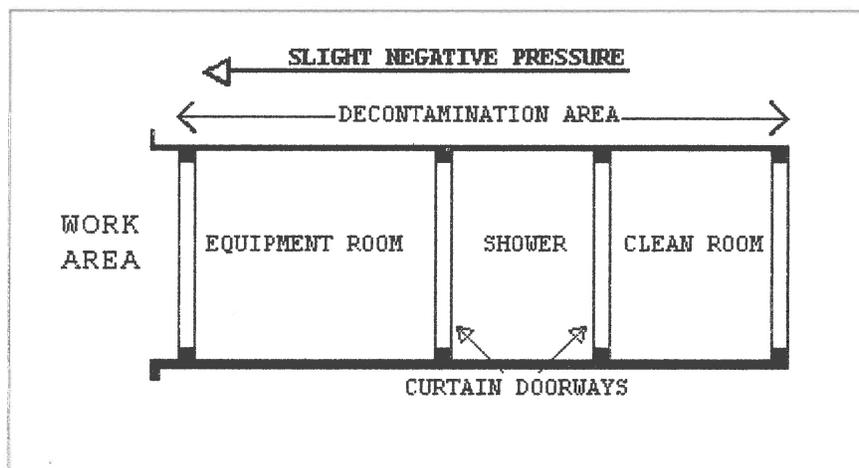
## XXV. CHANGE ROOMS

A decontamination enclosure, which meets the requirements of 29 CFR 1926.1101, shall be constructed prior to the commencement of any abatement work requiring an asbestos containment. WACO INC. shall provide a temporary area with a separate equipment room, decontamination room, and a clean room for personnel required to wear whole body protective clothing. We shall separate each room from each other and from the control area by airlocks. Employees shall vacuum and remove asbestos-contaminated disposable protective clothing while still wearing respirators in the equipment room and seal clothing in impermeable bags or containers for disposal. Shower wastewater shall be handled and disposed of as asbestos--contaminated material or shall be filtered through a final filter of at least 0.5 micron particle size collection capability before disposal into the sanitary sewer system. We will handle and dispose of filters as asbestos-contaminated material. Change rooms shall be physically attached to the asbestos control area where feasible. The Competent Person shall require all personnel to adhere to following decontamination procedures whenever they leave the regulated area.

- A. When exiting the regulated area, remove disposable coveralls, and ALL other clothes, disposable head coverings, and foot coverings or boots in the equipment room.
- B. Still wearing the respirator and completely naked, proceed to the shower. Showering is MANDATORY. Care must be taken to follow reasonable procedures in removing the respirator to avoid inhaling asbestos fibers while showering. The following procedure is required as a minimum:
  - 1. Thoroughly wet body including hair and face. If using a PAPR hold blower above head to keep filters dry.
  - 2. With respirator still in place, thoroughly decontaminate body, hair, respirator face piece, and all other parts of the respirator except the blower and battery pack on a PAPR. Pay particular attention to cleaning the seal between the face and respirator facepiece and under the respirator straps.
  - 3. Take a deep breath, hold it and/or exhale slowly, completely wetting hair, face, and respirator. While still holding breath, remove the respirator and hold it away from the face before starting to breathe.
- C. Carefully decontaminate the facepiece of the respirator inside and out. If using a PAPR, shut down using the following sequence:
  - a) first cap inlets to filters; b) turn blower off to keep debris collected on the inlet side of the filter from dislodging and contaminating the outside of the unit; c) thoroughly decontaminate blower and hoses; d) carefully

decontaminate battery pack with a wet rag being cautious of getting water in the battery pack thus preventing destruction. (THIS PROCEDURE IS NOT A SUBSTITUTE FOR RESPIRATOR CLEANING!)

- D. Shower and wash body completely with soap and water. Rinse thoroughly.
- E. Rinse shower room walls and floor to drain prior to exiting.
- F. Proceed from shower to clean room; dry off and change into street clothes or into new disposable work clothing.



#### XXVI SHUT DOWN - LOCK OUT ELECTRICAL

Shut down and lock out/tag out electric power to the regulated area. Provide temporary power and lighting. Insure safe installation including GFCI of temporary power sources and equipment by compliance with all applicable electrical code requirements and OSHA requirements for temporary electrical systems. Where power is available inside of the work area and can safely be isolated for use, GFCI protection must be used on all connections. Electricity shall be provided by the the Owner.

#### XXVII SHUT DOWN - LOCK OUT HVAC

Shut down and lock out/tag out heating, cooling, and air conditioning system (HVAC) components that are in, supply or pass through the regulated area. Seal all intake and exhaust vents in the regulated area with duct tape and 2 layers of 6-mil poly. Also, seal any seams in system components that pass through the regulated area. Remove all contaminated HVAC system filters and place in labeled 6-mil poly disposal bags for disposal as asbestos waste.

**XXVIII CONTAINMENT AREA**

Prior to containing the work area remove all movable material/equipment and secure all unmovable material/equipment. Seal off any openings at the perimeter of the regulated area with critical barriers to completely isolate the regulated area and to contain all airborne asbestos contamination created by the abatement activities. Should the adjacent area past the regulated area become contaminated due to improper work activities, Waco Inc. shall suspend work inside the regulated area, continue wetting, and clean the adjacent areas in accordance with procedures described in these specifications.

**XXIX. CONTROLLING ACCESS TO THE REGULATED AREA**

Access to the regulated area is allowed only through the personnel decontamination facility. All other means of access shall be eliminated and DANGER demarcation signs posted as required by OSHA. If the regulated area is adjacent to, or within view of an occupied area, provide a visual barrier of 6 mil opaque poly to prevent building occupant observation. If the adjacent area is accessible to the public, the barrier must be solid and capable of withstanding the negative pressure.

**XXX. DANGER SIGNS AND LABELS**

WACO INC. shall provide danger signs in English at approaches to asbestos control areas. Locate signs at such a distance that personnel may read the sign and take the necessary precautions before entering the area. Provide caution labels printed in English.

Danger signs shall be in accordance with 29 CFR 1910.145, paragraph (d) (4), vertical format, 20 by 14 inches; spacing between two consecutive lines shall be at least equal to the height of the upper line. They shall display the following legend in the lower panel:

LEGEND	NOTATION
Danger	1-inch Sans Serif Gothic or Block
Asbestos	1-inch Sans Serif Gothic or Block
Cancer and Lung Disease Hazard	1/4-inch Sans Serif Gothic or Block
Authorized Personnel Only	1/4-inch Gothic
Respirators and Protective Clothing Are Required In This Area	1/4-inch Gothic

Affix labels to asbestos materials, scrap waste, debris, sealed impermeable bags, asbestos waste drums, and other asbestos-contaminated products.

Waco Inc. shall provide labels of sufficient print size to be clearly legible, with bold print on a contrasting background, displaying the following legend:

**DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD  
BREATHING ASBESTOS DUST MAY  
CAUSE SERIOUS BODILY HARM**

Additionally, Waste Generator Labels shall list the generator's name, location where asbestos was removed, and contractor's name.

#### **XXXI. TOOLS AND LOCAL EXHAUST SYSTEM**

Local exhaust, where used, shall be designed for a minimum of one control area air change every 15 minutes and additional air change flow rate sufficient to maintain a minimum pressure differential of minus 0.02 inch of water column relative to adjacent unsealed areas. The building heating, ventilating, and air-conditioning (HVAC) system shall not be used as the local exhaust system for the asbestos control area. Filters on vacuums and exhaust equipment shall be absolute HEPA filters and UL 586 labeled.

#### **XXXII. WETTING AGENT AND SEALER**

A chemical wetting agent added to water to improve penetration shall be used. The agent shall be a 50/50 mixture of polyoxyethylene ether and polyoxethylene ester, or equivalent, mixed in a proportion of one fluid ounce to 5 gallons of water or as specified by the manufacturer.

A sealer or encapsulant shall be used that is designed specifically for asbestos removal. This sealer shall be used to lock down any residual fibers that may remain following the asbestos removal. Sealer shall be applied where required.

#### **XXXIII. ASBESTOS FREE MARKINGS**

Where new insulation is installed, it is suggested that the Owner identify the new materials as asbestos free.

#### XXXIV. DISPOSAL OF ASBESTOS

In addition to the detailed requirements of the specifications, Waco Inc. shall comply with the laws, ordinances, rules, and regulations of the Federal, State, Regional and Local authorities regarding handling, storing, transporting and disposing of asbestos waste materials. Waco Inc. shall comply with the applicable requirements of the current issue of 29 CFR 1926.1101 and 40 CFR 61, Subparts A and M. Waco Inc. shall submit copies of waste manifests to document that the asbestos material has been disposed of in accordance with all applicable regulations. Waco Inc. shall ensure that all asbestos-containing waste is deemed "adequately wet", in accordance with EPA definition prior to being bagged for disposal. Bags, drums, or other acceptable packaging materials used for the transport of asbestos-containing waste shall be labeled as asbestos-containing and contain waste generator tags/labels. Two 6 mil polyethylene bags or sheetings shall be utilized for the disposal of all asbestos-containing wastes generated as part of the asbestos abatement project. All wastes shall be sent to an approved and licensed landfill that accepts asbestos-containing waste. Waste manifests shall accompany all waste that leaves site. Copies of the waste manifests shall be submitted to the Owner.

#### XXXV. LANDFILL

The landfill for the disposal of asbestos containing materials shall be:

LANDFILL NAME	H. A. M. Landfill
ADDRESS	P. O. Box 576 Peterstown, WV 24963

#### XXXVI. WORK PROCEDURE

Asbestos abatement work shall be performed in accordance with 29 CFR 1926.1101. Wet removal procedures shall be used. Personnel shall wear and utilize protective clothing and equipment as specified herein. Eating, smoking, or drinking shall not be permitted in the asbestos control area or change room. Personnel of other trades not engaged in the removal and demolition of asbestos shall not be exposed at any time to airborne concentrations of asbestos greater than or equal to 0.01 fibers (longer than 5 micrometers) per cubic centimeter of air unless the personnel protection provisions of these specification are complied with by the trade personnel.

Prior to the start of work, Waco Inc. shall provide and maintain a sufficient quantity of materials and equipment to assure continuous and efficient work throughout the duration of the project.

- A. All materials shall be delivered in their original package, container or bundle bearing the name of the manufacturer and the brand name (where applicable).
- B. Store all materials subject to damage off the ground, away from wet or damp surfaces and under cover sufficient enough to prevent damage or contamination. Replacement materials shall be stored outside of the regulated area until abatement is completed.
- C. Waco Inc. shall not block or hinder use of buildings by staff, and visitors to the facility by placing materials/equipment in any unauthorized location.
- D. The Competent Person shall inspect for damaged, deteriorating or previously used materials. Such materials shall not be used and shall be removed from the worksite and disposed of properly.
- E. Polyethylene sheeting for walls in the regulated area shall be a minimum of 6-mils. For floors and all other uses, sheeting of at least 6-mils shall be used in widths selected to minimize the frequency of joints.
- F. The method of attaching polyethylene sheeting shall be agreed upon in advance and selected to minimize damage to equipment and surfaces. Method of attachment may include any combination of duct tape, furring strips, spray glue, staples, nails, screws, lumber and plywood for enclosures or other effective procedures capable of sealing polyethylene to dissimilar finished or unfinished surfaces under both wet and dry conditions.
- G. Polyethylene sheeting utilized for the personnel decontamination facility shall be 6 mil poly and opaque white or black in color.
- H. Installation and plumbing hardware, showers, hoses, drain pans, sump pumps and waste water filtration system shall be provided by Waco Inc.
- I. An adequate number of HEPA vacuums, scrapers, sprayers, nylon brushes, brooms, disposable mops, rags, sponges, staple guns, shovels, ladders and scaffolding of suitable height and length as well as meeting OSHA requirements, fall protection devices, water hose to reach all areas in the regulated area, airless spray equipment, and any other tools, materials or equipment required to conduct the abatement project. All electrically operated hand tools, equipment, electric cords shall be connected to GFCI protection.
- J. Special protection for objects in the regulated area shall be detailed (e.g., plywood over carpeting or hardwood floors to prevent damage from scaffolds, water and falling material).
- K. Disposal bags – 2 layers of 6 mil poly for asbestos waste shall be pre-printed with labels, markings and address as required by OSHA, EPA and DOT regulations.
- L. OSHA DANGER demarcation signs as required by OSHA 29 CFR 1926.1101(k)(7) shall be provided and placed by the competent

person. All other posters and notices required by Federal and State regulations shall be posted in the Clean Room.

M. Adequate and appropriate PPE for the project and number of personnel/shifts shall be provided.

In regards to the sequence of the asbestos-related work in reference to the contract scheduling requirements, the asbestos removal activities must take place prior to any work that may disturb the asbestos containing materials causing a release of fibers.

Emergency and fire exits must be maintained from the work area.

#### **XXXVII. ABATEMENT PROCEDURES:**

The asbestos work and abatement technique, including work procedure and masking and sealing is as follows:

All asbestos containing materials shall be removed using the wet method. Personnel shall wear and use protective clothing and equipment. Eating, smoking, or drinking shall not be permitted in the asbestos control area. Personnel of other trades not engaged in the removal and demolition of asbestos shall not be exposed at any time to airborne concentrations of asbestos greater than or equal to 0.01 fibers (longer than 5 micrometers) per cubic centimeter of air unless the personnel protection provisions of the specifications are complied with by the trade personnel.

Prior to starting asbestos demolition or removal procedures, an asbestos control area shall be established. On operations being performed external to the building, the ground in the asbestos control area shall be covered with one layer of 6 mil polyethylene sheeting. When the materials are non-friable, a containment will not be required. When the glovebag technique is used, a containment will not be required.

Before any work begins, all necessary materials and supplies should be brought into the work area. This work area should be roped off and warning signs posted on the perimeter to minimize the chance of visitors entering this area.

Waco Inc. shall not allow asbestos debris and/or waste to accumulate inside the work area(s). Visible dust and debris shall be wet wiped and HEPA vacuumed during abatement activities to minimize fiber release.

## XXXVIII CATEGORIES, CLASSES AND TYPES OF ASBESTOS

"Category I nonfriable ACM" is defined as "...packings, gaskets, resilient floor covering & asphalt roofing...containing...asbestos...that...cannot be crumbled...to powder by hand pressure." Category I ACM is pliable (not brittle), breaks by tearing rather than fracturing, and does not easily release asbestos fibers upon breaking.

"Category II nonfriable ACM" is defined as "any material, excluding category I nonfriable ACM, containing...asbestos...that...cannot be crumbled...to powder by hand pressure." This includes rigid exterior siding & boards known by the trade name "transite". Category II ACM is not pliable, breaks by fracturing rather than tearing, and does release some asbestos fiber release upon breaking.

Class I Work means activities involving the removal of TSI, spray-on fireproofing, fire doors, surfacing ACBM and presumed asbestos-containing material (PACM).

Class II Work means activities involving the removal of ACBM that is not TSI or surfacing material. This includes, but is not limited to, the removal of asbestos-containing floor tile and vinyl floor sheeting, cementitious panels (including chalkboards), roofing, construction mastics (and chalkboard glue dots), and window caulking.

"Friable ACM" is defined as "any material containing...asbestos... that...can be crumbled...to a powder by hand pressure." Friable ACM has little structural strength and contains asbestos fibers which are readily released upon breaking.

Some common Asbestos Containing Materials (ACM) include:

- Thermal System Insulation (TSI) (e.g., pipe insulation)
- Surfacing material on walls or ceilings
- Textured surfacing material
- Acoustical material
- Transite panels (e.g., garage door panels, fume hood walls, fire walls, etc.)
- Electrical insulation
- Fire-proofing material
- Fire-protective clothing
- Fire-rated asbestos core doors
- Fire-stop material and fire-resistant drywall
- Thermal laboratory gloves and clothing
- Floor tile (especially 9-inch tile) and tile mastic
- Vinyl sheet flooring
- Personal hair dryers (insulating material)
- Heating pads
- Siding, Roofing Paper, Shingles and Adhesives
- Theatrical lamps (insulation)
- Theatrical (fire) curtains
- Brake pads / Clutch disks
- Roofing shingles and adhesives
- Some varieties of ceiling tile
- Some plasters
- Some cements
- Some spackling compounds
- Asbestos cement pipe