

Application Routing and Transmittal Sheet (AC/AO/AF)

Air Permitting Supervisor - Required Information for Project Setup by Admin			
Owner/(Facility Name, if needed):	Great Southern Wood Preserving	County:	Sumter
Facility ID No.:	new	Latitude:	28/45/2
Project Name:	first FESOP	Longitude:	82/6/2
Project Description:	initial air permit for a wood preserving facility		
Facility Type:	<input checked="" type="checkbox"/> New <input type="checkbox"/> Relocatable	Total Fee Submitted (\$):	750
Type/Subtype:	AF2C	Total Fee Required (\$):	750
Date Received:	9/4/08	Net Fee Needed (\$):	
Fee Status:	<input checked="" type="checkbox"/> Correct <input type="checkbox"/> Incorrect <input type="checkbox"/> NA	Net Fee Refund (\$):	
Fee Checked By:	cz	Fee override reason: (if needed)	NONE
Date Fee Checked:	9/5/08		

Admin - Project Setup Information			Permit Number:
Project Number:	001	Initial ARMS Entry:	1190048-001 AF
Date:	9/8/08	Initials:	SGW

Air Permitting Supervisor - Application Information			
Application Assigned To:	Stubbs_D	No. of Hardcopies:	1
Date Assigned:		Copies issued to DEP Engineer:	1
Confidential Information (Y/N):	n	No. of Disk:	na
		Copies issued to County:	na
		EPSAP (Y/N):	n
		Copies issued to other:	na

Compliance/Enforcement Review (review marked by supervisor)	
Permit Supervisor - Email sent for application review/comments:	na, currently unpermitted facility
Permit Supervisor - Copy of transmittal sheet to Nedin Bathic (new facility)? (Y/N):	y
Permit Supervisor - Draft Permit Review? (Y/ED)	ED

Air Permitting - Permit Transmittal (add initials & date completed)			
	Intent / Draft		Final
Permit Clock Dates	Day 30: 10/4/08	Day 90: 4/28/09	Day 30: Day 90: 8/9/09
Zipfile Name On Air_Common*	D:\2/20/09 1190048.001.af.f		D:\7/7/09 1190048.001.af.f
Final Permit Name On Air_Common*	D:\7/7/09 1190048.001.af.f		D:\7/7/09 1190048.001.af.f
Engineer -> Permit Reviewer	D.S. 2/24/09		D.S. 7/7/09
Permit Reviewer -> Permit Supervisor	cz 3/5/09		cz 7/9/09
Permit Supervisor -> DAPA	MGN 03-22-09 / MGN 04-08-09		MGN 07-10-09
DAPA -> Clerk/Engineer	PP 04-09-09		PP 07-10-09
Permit Package Mailed/Emailed	PP 04-09-09		PP 07-10-09
Arms Event Entry	PP 04-09-09		PP 07-10-09
Copy to Interested Party (Y/N)	PP 04-09-09		PP 07-10-09
Posted to DEP Website	PP 04-09-09		PP 07-10-09
ARMS Inventory Data Entry	PP 7/23/09	Permitting Clerk:	PP 07-10-09

* Air_Common\Permitting\Permits\PermitXX\

Air Permitting Supervisor - Data Fields for Access System (add at final Issuance)			
Issue Date:		MACT:	QQQQQQ
Facility Description:	WOOD PRODUCTS	NSPS:	
Source Description:	WOOD PRODUCTS Mfg	FUEL:	P
296		Control Equip.:	
Project Description / Comments:	Initial FESOP / WOOD TREATMENT FACILITY		
Permit Clerk - Permit List Data Entry (Access):	PP 07-10-09		

Special Routing	
Permitting Supervisor - Engineer to send final permit to compliance section (Y/N)	y 3/23/09

<input checked="" type="checkbox"/> Application Log	<input checked="" type="checkbox"/> Fee Verification in ARMS	<input checked="" type="checkbox"/> Deadline Check	<input checked="" type="checkbox"/> Project ID
---	--	--	--

SWD INTERNAL PERMITTING MEMORANDUM

TO: Mara Grace Nasca
District Air Program Administrator

THRU: Cindy Zhang-Torres, P.E. *gj*
Air Permitting Supervisor

FROM: Danny Stubbs *DS*,
Air Permitting Engineer

DATE: 7/7/2009

SUBJECT: Final Permit No: 1190048-001-AF
Facility Name: Great Southern Wood – Bushnell, Inc.

Day 90: 8/9/2009

The public notice was properly published in the Sumter County Times newspaper on June 11, 2009 and the newspaper affidavit was received on July 7, 2009. As of this date no comments have been received.

There have been no changes to the permit as it was originally proposed with the Intent to Issue.



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

December 17, 2008

Mr. Jerry Wright, Project Manager
Great Southern Wood Preserving, Inc.
P.O. Box 610
Abbeville, Alabama 36310

Re: Application dated August 15, 2008
DEP File No. 1190048-001-AF

Dear Mr. Wright:

On September 4, 2008, the Florida Department of Environmental Protection (Department) received your application for a Federally Enforceable State Operation Permit (FESOP). On November 17, 2008 the Department received your response to our request for additional information (RAI) letter which was mailed to you on October 3, 2008. Based on the information submitted, the application is not considered complete. In order to continue processing the application, the Department will need the following additional information pursuant to Rules 62-4.055 and 62-4.070(1), F.A.C.:

1. In our letter dated October 3, 2008, the Department requested information regarding the authorized representative. The letter contained the following question:

Please refer to page 3 of the application. The authorized representative listed does not appear to be an owner or officer of the corporation. This is based on information available in the "Florida Department of State, Division of Corporation" web site (www.sunbiz.org). In the case where the authorized representative is not an owner or officer, the application instruction requires a letter of authorization from such owner or officer designating the person named in the application. Please provide the Department with a letter of authorization from an officer of the company.

In your response, you included a new authorized representative page; however, there are two problems. The first problem is the authorized representative form submitted appears to be a photocopy and not an original. The second problem is that the name of the person listed on the authorized representative form submitted with your RAI response letter "Kevin Savoy", is not listed on the "Florida Department of State, Division of Corporation" web site (www.sunbiz.org). I have included a copy of the information available on the "Florida Department of State, Division of Corporation" to this letter. The Departments can accept any one of the officers listed as the authorized representative or a letter from any one of the officers listed designating someone not on the list (i.e. Kevin Savoy or Jerry Wright) as the authorized representative. You could also have the information on the "Florida Department of State, Division of Corporation" website updated to include officers not currently listed.

Page 1 of 2


2. Please refer to item # 3 of you November 17, 2008 response letter. In the letter, you said that process flow diagrams for each treatment cylinder were attached; however, this document was not included. The letter only included two facility plot plans. Please provide process flow diagrams for the treatment cylinders.

NOTE - Rule 62-4.050, F.A.C. requires applications of this type must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature and therefore, your response to the above requests should be certified by a professional engineer.

Authorized Representative's signature should also be included on the response and it should be submitted to the Department by January 31, 2009. If you have any questions, please call Danny Stubbs at 813-632-7600 extension 159.

This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the department and may be subject to revision pursuant to additional information and further review

Sincerely,


Cindy Zhang-Torres, P.E.
Air Program Permitting Supervisor
Southwest District

Attachment: Florida Department of State, Division of Corporation web site information.

cc: Mr. Stan Price, P.E.
Barge Waggoner Summer & Cannon, Inc.
2047 West Main Street
Dothan, AL 36301

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No Events

No Name History

Detail by Entity Name

Foreign Profit Corporation

GREAT SOUTHERN WOOD PRESERVING, INCORPORATED

Filing Information

Document Number F05000007479

FEI Number 630594831

Date Filed 12/27/2005

State AL

Status ACTIVE

Principal Address

1100 HIGHWAY 431 NORTH
ABBEVILLE AL 36310

Mailing Address

PO BOX 610
ABBEVILLE AL 36310

Changed 07/19/2006

Registered Agent Name & Address

C T CORPORATION SYSTEM
1200 SOUTH PINE ISLAND ROAD
PLANTATION FL 33324 US

Officer/Director Detail

Name & Address

Title PD

RANE, JAMES W SR.
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title VPSD

RANE, MICHAEL G
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title SD

RANE, ANTHONY J
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title D

RANE, ELIZABETH M
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title D

DYE, PATRICK F
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title D

STALLINGS, GENE
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Annual Reports

Report Year	Filed Date
2006	07/19/2006
2007	03/14/2007
2008	03/27/2008

Document Images

- 03/27/2008 -- ANNUAL REPORT [View image in PDF format](#)
- 03/14/2007 -- ANNUAL REPORT [View image in PDF format](#)
- 07/19/2006 -- ANNUAL REPORT [View image in PDF format](#)
- 12/27/2005 -- Foreign Profit [View image in PDF format](#)

Note: This is not official record. See documents if question or conflict.

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Detail by Entity Name

Florida Profit Corporation

GREAT SOUTHERN WOOD - BUSHNELL, INC.

Filing Information

Document Number L06802
FEI Number 631009316
Date Filed 08/01/1989
State FL
Status ACTIVE
Last Event AMENDMENT AND NAME CHANGE
Event Date Filed 10/01/2007
Event Effective Date NONE

Principal Address

1100 HIGHWAY 431 NORTH
ABBEVILLE AL 36310 US

Changed 12/01/2005

Mailing Address

PO BOX 610
ABBEVILLE AL 36310-0610 US

Changed 03/15/1996

Registered Agent Name & Address

C T CORPORATION SYSTEM
1200 SOUTH PINE ISLAND ROAD
PLANTATION FL 33324 US

Name Changed: 12/01/2005

Address Changed: 12/01/2005

Officer/Director Detail

Name & Address

Title PD

RANE, JAMES W SR.
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title VPD

RANE, MICHAEL G
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title SD

RANE, A J

1100 HIGHWAY 431 NORTH/P.O. E 610
ABBEVILLE AL 36310

Title D

RANE, ELIZABETH M
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310 US

Title D

DYE, PATRICK F
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310 US

Title D

STALLINGS, GENE
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310 US

Annual Reports

Report Year Filed Date

2006	02/02/2006
2007	03/14/2007
2008	03/27/2008

Document Images

03/27/2008 -- ANNUAL REPORT	View image in PDF format
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03/14/2007 -- ANNUAL REPORT	View image in PDF format
02/02/2006 -- ANNUAL REPORT	View image in PDF format
12/01/2005 -- Reg. Agent Change	View image in PDF format
03/14/2005 -- ANNUAL REPORT	View image in PDF format
02/28/2004 -- ANNUAL REPORT	View image in PDF format
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03/15/1996 -- ANNUAL REPORT	View image in PDF format
04/21/1995 -- ANNUAL REPORT	View image in PDF format

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Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

October 3, 2008

Mr. Jerry Wright, Project Manager
Great Southern Wood Preserving, Inc.
P.O. Box 610
Abbeville, Alabama 36310

Re: Application dated August 15, 2008
DEP File No. 1190048-001-AF

Dear Mr. Wright:

On September 4, 2008, the Florida Department of Environmental Protection (Department) received your application for a Federally Enforceable State Operation Permit (FESOP). The application is not considered complete. In order to continue processing the application, the Department will need the following additional information pursuant to Rules 62-4.055 and 62-4.070(1), F.A.C.:

1. Please refer to page 3 of the application. The authorized representative listed does not appear to be an owner or officer of the corporation. This is based on information available in the "Florida Department of State, Division of Corporation" web site (www.sunbiz.org). In the case where the authorized representative is not an owner or officer, the application instruction requires a letter of authorization from such owner or officer designating the person named in the application. Please provide the Department with a letter of authorization from an officer of the company.
2. Please refer to page 5 of the application. Based on the descriptions provided for emissions unit ID 1 and 2, is it correct to assume that cylinder 3 is the only cylinder at the facility that will ever be used for the Chromated Copper Arsenate (CCA) wood preserving process? Could cylinders 1 and 2 ever be used for the CCA wood preserving process?
3. Please refer to page 10 of the application.
 - Please provide a facility plot plan that meets the requirements outlined in the permit application instructions.
 - Please provide process flow diagrams that represent the existing emission units at the facility. The application submitted contains a process flow diagram (Attachment #5); however, there are three cylinders and it's not clear how the associated tanks are used in the process. There is not enough information to determine if the three cylinders share common tanks or if each cylinder is equipped with independent tanks.
4. Please refer to "Emission Unit Information Section 1 of 2" (page 12) and "Emission Unit Information Section 2 of 2" of the application under the section titled "Emission Unit Operating Capacity and Schedule".

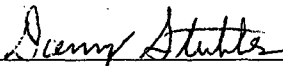
- Please provide either a process or throughput rate for item #3 and or a production rate for Item #4.
 - Please provide a "Requested maximum Operating Schedule" for Item #5
5. Please refer to "Emission Unit Information Section 1 of 2" (page 14) and "Emission Unit Information Section 2 of 2" of the application on the page titled "C. Segment (Process/Fuel) Information". Please complete the "Segment Description and Rate" section of the application.
 6. Please refer to "Emission Unit Information Section 1 of 2" (page 15) and "Emission Unit Information Section 2 of 2" of the application on the page titled "D. Emissions Unit Pollutant Detail Information", and the section titled "Potential Emissions". Please complete the "Potential Emissions" section of the application for arsenic and chromium compounds and for any other pollutant that exceeds the emission unit threshold as defined in the instructions of DEP Form No. 62-210.900(3) in the section titled "D. Emission Unit Pollutant Detail Information".
 7. Please refer to 40 CFR Part 63, Subpart QQQQQQ – National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources.
 - Please define this facility as either an existing or new source based information provided in section 63.11428(b) of the subpart.
 - Please specify your compliance date based on information provided in section 63.11429 of the subpart.
 - Please identify the standards in section 63.11430 of the subpart that are applicable to your facility. If section 63.11430 (c) is applicable, then submit a management practice plan.
 8. In a permit determination letter issued by the Department on June 6, 2008, the installation of a LPG fired lumber kiln was discussed. If the lumber kiln has been purchased or installed, please provide the manufacturer, model number and design firing rate in BTU/Hour of the kiln.

NOTE - Rule 62-4.050, F.A.C. requires applications of this type must be certified by a professional engineer registered in the State of Florida. This requirement also applies to responses to Department requests for additional information of an engineering nature and therefore, your response to the above requests should be certified by a professional engineer.

Your signature should also be included on the response and it should be submitted to the Department by November 17, 2008. If you have any questions, please call me at 813-632-7600 extension 159.

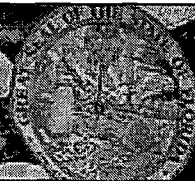
This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the department and may be subject to revision pursuant to additional information and further review

Sincerely,



Danny Stubbs
Air Permitting Engineer
Southwest District

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Foreign Profit Corporation

GREAT SOUTHERN WOOD PRESERVING, INCORPORATED

Filing Information

Document Number F05000007479

FEI Number 630594831

Date Filed 12/27/2005

State AL

Status ACTIVE

Principal Address

1100 HIGHWAY 431 NORTH
ABBEVILLE AL 36310

Mailing Address

PO BOX 610
ABBEVILLE AL 36310

Changed 07/19/2006

Registered Agent Name & Address

C T CORPORATION SYSTEM
1200 SOUTH PINE ISLAND ROAD
PLANTATION FL 33324 US

Officer/Director Detail

Name & Address

Title PD

RANE, JAMES W SR.
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title VPSD

RANE, MICHAEL G
1100 HIGHWAY 431 NORTH/P.O. BOX 610
ABBEVILLE AL 36310

Title SD



**GREAT SOUTHERN
WOOD PRESERVING INC.**

Dept. Of Environmental Protection

MAR 19 2008

Southwest District

March 14, 2008

Cindy Zhang-Torres
Southwest District
Air Division
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Re: Great Southern Wood Preserving, Inc.
Small Lumber Kiln with 600,000 Btu/hr burner

Ms. Zhang-Torres

Great Southern Wood Preserving proposes to construct a kiln on our Sumter County Florida site located at:

County Road 527-A
Lake Panasoffkee, FL 33538

Lat = 28 degrees, 45.2 minutes North
Long = 82 degrees, 6.0 minutes West

I have attached for your review a description of our general process at this location, general contact information at the site, estimated emissions from the kiln based on AP 42 emission factors.

After review, please determine whether any State or federal emission standards are expected to be exceeded.

Please contact me if you have any questions.

Best regards,

Jerry Wright
Project Engineer
Great Southern Wood Preserving, Inc.
P.O. Box 610
Abbeville, AL 36310
Office (334) 585-2291

MAR 19 2008

Southwest District

Name of Facility
Great Southern Wood Preserving, Inc.

Physical Location
County Rd 527-A
Lake Panasoffkee, Sumter County, FL 33538

Lat 28 degrees, 45.2 minutes North
Long 82 degrees, 6.0 minutes West

Owners Business Mailing Address
Great Southern Wood Preserving, Inc.
P.O. Box 610
Abbeville, AL 36310

Responsible Official's Business Address
Jerry Wright
Project Engineer
Hwy 431 N.
Abbeville, AL 36310
jwright@gswp.net
(334) 585-2291

Plant Contact Information
Mike French
General Manager
Great Southern Wood Preserving, Inc.
County Rd 527-A
Lake Panasoffkee, Sumter County, FL 33538
mfrench@gswp.net
(352) 793-9410

Nature of application
New Source

Estimated date of construction
April 1, 2008

General Nature of Business
NAICS Code 321114

Great Southern Wood Preserving purchases lumber from lumber mills. This lumber has already been dried when it arrives onto our site. We pressure treat the lumber using water borne preservatives.

This small lumber kiln will be used to dry water out of the pressure treated lumber at temperatures in the range of 120°F to 145°F.

The fuel for the kiln is LPG. The burner is a 600,000 Btu/hr unit.

Because the wood has already been dried, water driven out of the wood is from the pressure treating process.

at a much higher temp to drive the naturally occurring moisture in the wood

The wood is assumed not be a source of VOC or NESHAP air pollutants.

Attached is a copy of the calculated emissions of criteria pollutants using the emission factors for Propane Emission Factors for Commercial Boilers (heat input capacities generally between 0.3 and 10 million Btu/hr) found in AP 42, Fifth Edition, Volume I, Chapter 1: External Combustion Sources, Section 1.5 – Liquefied Petroleum Gas Combustion.



Figure 1: Photo of kiln similar to proposed kiln.

Pollutant	Emission Factor* (lb/10 ³ gal)	Emission Factor (lb/MMBtu)	Emissions (lb/hr) @ 600,000 Btu/hr	Annual Emissions (lb) 24 hr / 7 day operation	Annual Emissions (ton) 24 hr / 7 day operation	Major Source?
PM	0.4	4.37E-03	2.62E-03	23	1.15E-02	No
SO ₂	0.1	1.09E-03	6.56E-04	5.7	2.87E-03	No
NO _x	14	1.53E-01	9.18E-02	804.2	4.02E-01	No
N ₂ O	0.9	9.84E-03	5.90E-03	51.7	2.58E-02	No
CO ₂	12,500	1.37E+02	8.20E+01	718,033	3.59E+02	No
CO	1.9	2.08E-02	1.25E-02	109.1	5.46E-02	No
TOC	0.5	5.46E-03	3.28E-03	28.7	1.44E-02	No
CH ₄	0.2	2.19E-03	1.31E-03	11.5	5.74E-03	No

* AP 42 Table 1.5-1 Emission Factors for LBG Combustion

Propane Emission Factors for Commercial Boilers

AP 42, Fifth Edition, Volume I

Chapter 1: External Combustion Sources

Section 1.5 Liquefied Petroleum Gas Combustion

<http://www.epa.gov/ttn/chief/ap42/ch01/final/c01s05.pdf>

Dept. Of Environmental Protection

MAR 19 2008

Southwest District

4/7

DEPARTMENT OF ENVIRONMENTAL PROTECTION

REGULATORY DISTRICT/BRANCH OFFICE
FIELD MAIL ROUTING SLIP

This section must be completed

FROM: Elizabeth Walker

MS#: 5505 PHONE: 921-9505

TO: (PLEASE CHECK ONE)

- | | |
|--|------------------------------|
| <input type="checkbox"/> PENSACOLA | NW DISTRICT OFFICE |
| <input type="checkbox"/> Panama City | NW District Branch Office |
| <input type="checkbox"/> TALLAHASSEE | NW District Branch Office |
| <input checked="" type="checkbox"/> TEMPLE TERRACE
(formerly Tampa) | SW DISTRICT OFFICE |
| <input type="checkbox"/> ORLANDO | CENTRAL DISTRICT OFFICE |
| <input type="checkbox"/> JACKSONVILLE | NE DISTRICT OFFICE |
| <input type="checkbox"/> FORT MYERS | SOUTH DISTRICT OFFICE |
| <input type="checkbox"/> Marathon | South District Branch Office |
| <input type="checkbox"/> Punta Gorda | SOUTH District Branch Office |
| <input type="checkbox"/> WEST PALM BEACH | SE DISTRICT OFFICE |
| <input type="checkbox"/> Port St. Lucie | SE District Branch Office |

ATTENTION: Cindy Zhang-Torres

COMMENTS:

Please call me if you
have any questions



RECEIVED

MAR 07 2008

DIVISION OF AIR
RESOURCES MANAGEMENT

Florida Dept of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road, MS 5000
Tallahassee, FL 32399-2400

Re: Initial Notification of Applicability and Notice of Compliance under 40 CFR
Part 63 Subpart QQQQQQ

To Whom It May Concern:

To be in compliance with 40 CFR Part 63 Subpart QQQQQQ, Great Southern
Wood Preserving, Inc. is submitting this letter as initial notification that the above
named rule is applicable to our operation located at:

County Rd 527-A
Lake Panasoffkee, FL

The requirements described in the Rule are generally normal practice in the
wood treating industry and in our operation. Therefore, we are notifying you that
the facility located at the address above complies with the management practices
to minimize air emissions from the preservative treatment of wood in accordance
with 63.11430.

Best regards,

March 5 2008

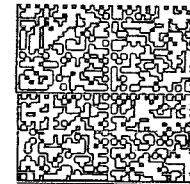
Jerry Wright
Project Engineer
Great Southern Wood Preserving

Dept. Of Environmental Protection

MAR 14 2008

Southwest District


**GREAT SOUTHERN
WOOD PRESERVING**™
P.O. Box 610
ABBEVILLE, ALABAMA 36310



Master

016H26513789
\$00.41
03/05/2008
Mailed From 36310
US POSTAGE

Florida Dept. of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Road, MS 5000
Tallahassee, FL 32399-2400

323992400



Zhang-Torres

From: Jerry Wright [jwright@gswp.net]
Sent: Monday, April 21, 2008 10:33 AM
To: Zhang-Torres
Subject: RE: Emissions for 600,000 Btu per hr kiln.xls

For the entire facility, we use approximately 75,000 gal of Carbo NT. Based on 8 lbs/gal and 3% by mass Methanol, that should be 18,000 lbs methanol. *9 tons*

Keep in mind this is in the wood. Not all of this is going into the dry kiln. The dry kiln will be used to dry very small amounts of wood.

From: Zhang-Torres [mailto:Cindy.Zhang-Torres@dep.state.fl.us]
Sent: Monday, April 21, 2008 9:19 AM
To: Jerry Wright
Subject: RE: Emissions for 600,000 Btu per hr kiln.xls

Jerry,

According to the MSDS, Carbo-NT contains 3% methanol. Methanol is a hazardous air pollutant. Could you please give me an estimate on how many gallons or lbs of Carbo-NT your facility uses **a year** using the worst-case scenario (assuming the facility operates 8760 hours a year)?

Thanks.

Cindy

From: Jerry Wright [mailto:jwright@gswp.net]
Sent: Friday, April 18, 2008 4:42 PM
To: Zhang-Torres
Subject: RE: Emissions for 600,000 Btu per hr kiln.xls

The work solution is a blend of these two chemicals.

The work solution is 99.5% water with the other two blended to make up the rest.

From: Zhang-Torres [mailto:Cindy.Zhang-Torres@dep.state.fl.us]
Sent: Friday, April 18, 2008 3:35 PM
To: Jerry Wright
Subject: RE: Emissions for 600,000 Btu per hr kiln.xls

No. I need the MSDS for the water borne preservatives you use when you pressure treat the lumber you purchased from lumber mills.

Thanks.

Cindy

From: Jerry Wright [mailto:jwright@gswp.net]
Sent: Friday, April 18, 2008 4:30 PM
To: Zhang-Torres
Subject: RE: Emissions for 600,000 Btu per hr kiln.xls

This is the MSDS for the pressure treated lumber. Is that what you need?

From: Zhang-Torres [mailto:Cindy.Zhang-Torres@dep.state.fl.us]
Sent: Friday, April 18, 2008 3:28 PM
To: Jerry Wright
Subject: RE: Emissions for 600,000 Btu per hr kiln.xls

Jerry,

Could you please email me the MSDS for the water borne preservatives you use to treat the pre-dried lumber?

Thanks.

Cindy

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

From: Jerry Wright [mailto:jwright@gswp.net]
Sent: Friday, March 14, 2008 12:50 PM
To: Zhang-Torres
Subject: Emissions for 600,000 Btu per hr kiln.xls

Jerry Wright

Great Southern Wood Preserving, Inc.

P.O. Box 610

Abbeville, AL 36310

www.greatsouthernwood.com

Office (334) 585-2291

Cell (334) 796-6740

Electronic Code of Federal Regulations



e-CFR Data is current as of March 18, 2008

Title 40: Protection of Environment

PART 63—NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES

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Subpart QQQQQQ—National Emission Standards for Hazardous Air Pollutants for Wood Preserving Area Sources

Source: 72 FR 38915, July 16, 2007, unless otherwise noted.

Applicability and Compliance Dates

§ 63.11428 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate a wood preserving operation that is an area source of hazardous air pollutant (HAP) emissions.

(b) The affected source is each new or existing wood preserving operation.

(1) An affected source is existing if you commenced construction or reconstruction of the affected source on or before April 4, 2007.

(2) An affected source is new if you commenced construction or reconstruction of the affected source after April 4, 2007.

(c) You are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not otherwise required by law to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3

(a). Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart.

§ 63.11429 What are my compliance dates?

(a) If you have an existing affected source, you must achieve compliance with applicable provisions in this subpart by July 16, 2007.

(b) If you startup a new affected source on or before July 16, 2007, you must achieve compliance with applicable provisions in this subpart not later than July 16, 2007.

(c) If you startup a new affected source after July 16, 2007, you must achieve compliance with applicable provisions in this subpart upon initial startup.

Standards

§ 63.11430 What are the standards?

(a) If you use a pressure treatment process with any wood preservative containing chromium, arsenic, dioxins, or methylene chloride at a new or existing area source, the preservative must be applied to the wood product inside a retort or similarly enclosed vessel.

(b) If you use a thermal treatment process with any wood preservative containing chromium, arsenic, dioxins, or methylene chloride at a new or existing area source, the preservative must be applied using process treatment tanks equipped with an air scavenging system to control emissions.

(c) If you use any wood preservative containing chromium, arsenic, dioxins, or methylene chloride at a new or existing area source, you must prepare and operate according to a management practice plan to minimize air emissions from the preservative treatment of wood at a new or existing area source. You may use your standard operating procedures to meet the requirements for a management practice plan if it includes the minimum activities required for a management practice plan. The management practice plan must include, but is not limited to, the following activities:

(1) Minimize preservative usage;

(2) Maintain records on the type of treatment process and types and amounts of wood preservatives used at the facility;

(3) For the pressure treatment process, maintain charge records identifying pressure reading(s) inside the retorts (or similarly enclosed vessel);

(4) For the thermal treatment process, maintain records that the air scavenging system is in place and operated properly during the treatment process;

(5) Store treated wood product on drip pads or in a primary containment area to convey preservative drippage to a collection system until drippage has ceased;

(6) For the pressure treatment process, fully drain the retort to the extent practicable, prior to opening the retort door;

(7) Promptly collect any spills; and

(8) Perform relevant corrective actions or preventative measures in the event of a malfunction before resuming operations.

§ 63.11431 [Reserved]

Other Requirements and Information

§ 63.11432 What General Provisions apply to this subpart?

(a) If you own or operate a new or existing affected source that uses any wood preservative containing chromium, arsenic, dioxins, or methylene chloride, you must comply with the requirements of the General Provisions in 40 CFR part 63, subpart A, according to Table 1 to this subpart.

(b) If you own or operate a new or existing affected source that uses any wood preservative containing chromium, arsenic, dioxins, or methylene chloride, you must submit an initial notification of applicability required by §63.9(a)(2) no later than 90 days after the applicable compliance date specified in §63.11429. The initial notification may be combined with the notification of compliance status required in paragraph (c) of this section. The notification of applicability must include the following information:

(1) The name and address of the owner or operator;

(2) The address (*i.e.* , physical location) of the affected source; and

(3) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date.

(c) If you own or operate a new or existing affected source that uses any wood preservative containing chromium, arsenic, dioxins, or methylene chloride, you must submit a notification of compliance status required by §63.9(h) no later than 90 days after the applicable compliance date specified in §63.11429. Your notification of compliance status must include this certification of compliance, signed by a responsible official, for the standards in §63.11430: "This facility complies with the management practices to minimize air emissions from the preservative treatment of wood in accordance with §63.11430."

(d) You must report any deviation from the requirements of this subpart within 30 days of the deviation.

§ 63.11433 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, §63.2, and in this section as follows:

Air scavenging system means an air collection and control system that collects and removes vapors from a thermal treatment process vessel and vents the emissions to a vapor recovery tank that collects condensate from the vapors.

Chromated copper arsenate (CCA) means a chemical wood preservative consisting of mixtures of water-soluble chemicals containing metal oxides of chromium, copper, and arsenic. CCA is used in pressure treated wood to protect wood from rotting due to insects and microbial agents.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emissions limitation or management practice;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emissions limitation or management practice in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Pressure treatment process means a wood treatment process involving an enclosed vessel, usually a retort, and the application of pneumatic or hydrostatic pressure to expedite the movement of preservative liquid into the wood.

Responsible official means responsible official as defined in 40 CFR 70.2.

Retort means an airtight pressure vessel, typically a long horizontal cylinder, used for the pressure impregnation of wood products with a liquid wood preservative.

Thermal treatment process means a non-pressurized wood treatment process where the wood is exposed to a heated preservative.

Wood preserving means the pressure or thermal impregnation of chemicals into wood to provide effective long-term resistance to attack by fungi, bacteria, insects, and marine borers.

§ 63.11434 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the U.S. EPA or a delegated authority such as a State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or tribal agency pursuant to 40 CFR subpart E, then that Agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is

delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraphs (b)(1) through (4) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(1) Approval of an alternative non-opacity emissions standard under §63.6(g).

(2) Approval of a major change to test methods under §63.7(e)(2)(ii) and (f). A "major change to test method" is defined in §63.90

(3) Approval of a major change to monitoring under §63.8(f). A "major change to monitoring" is defined in §63.90.

(4) Approval of a major change to recordkeeping/reporting under §63.10(f). A "major change to recordkeeping/reporting" is defined in §63.90.

As required in §63.11432, you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) as shown in the following table.

Table 1 To Subpart QQQQQQ of Part 63.—Applicability of General Provisions to Subpart QQQQQQ

Citation	Subject	Applies to subpart QQQQQQ?	Explanation
63.1(a)(1), (a)(2), (a)(3), (a)(4), (a)(6), (a)(10)–(a)(12)(b)(1), (b)(3), (c)(1), (c)(2), (c)(5), (e)	Applicability	Yes	
63.1(a)(5), (a)(7)–(a)(9), (b)(2), (c)(3), (c)(4), (d)	Reserved	No	
63.2	Definitions	Yes	
63.3	Units and Abbreviations	Yes	
63.4	Prohibited Activities and Circumvention	Yes	
63.5	Preconstruction Review and Notification Requirements	No	
63.6(a), (b)(1)–(b)(5), (b)(7), (c)(1), (c)(2), (c)(5), (e)(1), (i), (j)	Compliance with Standards and Maintenance Requirements	Yes	

63.6(e)(3)(i), (e)(3)(iii)–(e)(3)(ix), (f), (g), (h)(1), (h)(2), (h)(4), (h)(5)(i)–(h)(5)(iii), (h)(v)(v), (h)(6)–(h)(9)	No	Subpart QQQQQQ does not require startup, shutdown, and malfunction plan or contain emission or opacity limits	
63.6(b)(6), (c)(3), (c)(4), (d), (e)(2), (e)(3)(ii), (h)(3), (h)(5)(iv)	Reserved	No	
63.7	Performance Testing Requirements	No	Subpart QQQQQQ does not require performance tests.
63.8(a)(1), (a)(2), (a)(4), (b), (c), (d), (e), (f), (g)	Monitoring Requirements	No	Subpart QQQQQQ does not require monitoring of emissions.
63.8(a)(3)	Reserved	No	
63.9(a), (b)(1), (b)(2), (b)(4), (b)(5), (c), (d), (h)(1), (h)(6), (i), (j)	Notification Requirements	Yes	
63.9(b)(2)(i)–(b)(2)(v), (h)(2)(i)–(h)(2)(ii), (h)(3), (h)(5)		Yes	
63.9(e), (f), (g)		No	
63.9(b)(3), (h)(4)	Reserved	No	
63.10(a), (b), (c)(1), (c)(5)–(c)(8), (c)(10)–(c)(14), (d), (e), (f)	Recordkeeping and Reporting Requirements	No	Subpart QQQQQQ establishes requirements for a report of deviations within 30 days.
63.10(c)(2)–(c)(4), (c)(9)	Reserved	No	
63.11	Control Device Requirements	No	Subpart QQQQQQ does not require flares.
63.12	State Authorities and Delegations	Yes	
63.13	Addresses	Yes	
63.14	Incorporations by Reference	Yes	
63.15	Availability of	Yes	

	Information and Confidentiality		
63.16	Performance Track Provisions	Yes	

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For questions or comments regarding e-CFR editorial content, features, or design, email ecfr@nara.gov.

For questions concerning e-CFR programming and delivery issues, email webteam@gpo.gov.

[Section 508 / Accessibility](#)

Zhang-Torres

From: Jerry Wright [jwright@gswp.net]
Sent: Friday, April 18, 2008 4:42 PM
To: Zhang-Torres
Subject: RE: Emissions for 600,000 Btu per hr kiln.xls
Attachments: MicroPro 200-C.pdf; Carbo-NT MSDS.pdf

The work solution is a blend of these two chemicals.

The work solution is 99.5% water with the other two blended to make up the rest.

From: Zhang-Torres [mailto:Cindy.Zhang-Torres@dep.state.fl.us]
Sent: Friday, April 18, 2008 3:35 PM
To: Jerry Wright
Subject: RE: Emissions for 600,000 Btu per hr kiln.xls

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minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

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Sent: Friday, March 14, 2008 12:50 PM
To: Zhang-Torres
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Jerry Wright

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P.O. Box 610

Abbeville, AL 36310

www.greatsouthernwood.com

Office (334) 585-2291

Cell (334) 796-6740

Osmose MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET: **Carbo-NT**

SECTION I

MSDS NUMBER:	186-osm
MSDS CODE:	OSM
SYNONYMS:	N/A
MANUFACTURED FOR:	Osmose, Inc.
DIVISION:	WPD
EPA REGISTRATION NUMBER:	6836-304-3008
VENDOR:	N/A
EMERGENCY PHONE:	CHEMTREC: 1(800) 424-9300
OTHER CALLS:	716-882-5905
ADDRESS:	980 Ellicott Street, Buffalo NY 14209
MSDS PREPARED BY:	Teri Muchow
DATE PREPARED:	June 18, 2003
DATE LAST REVISED:	February 3, 2004 (replaces December 3, 2003)

ADDITIONAL INFORMATION

CHEMTREC'S EMERGENCY TELEPHONE NUMBER IS TO BE USED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

TRADE NAME: Carbo-NT					
INGREDIENT NAME	CAS	OSHA PEL	ACGIH TLV	OTHER	%
Didecyl dimethyl ammonium carbonate and Didecyl dimethyl ammonium bicarbonate	Proprietary	None Established	None Established	N/A	50%
N-Dialkyl-N, N-dimethylamine	Proprietary	None Established	None Established	N/A	1%
Methanol	67-56-1	200 ppm TWA	200 ppm TLV 250 ppm STEL	RQ = 5000 pounds	3%
Propylene glycol	57-55-6	N/A	N/A	N/A	9%
Water	7732-18-5	None	None	N/A	36%

SECTION III - CHEMICAL CHARACTERISTICS

BOILING POINT	MELTING POINT	FREEZING POINT	SPECIFIC GRAVITY (H ₂ O = 1)	PERCENT VOLATILE BY VOLUME	THEORETICAL VOC CONTENT (PERCENT OF WEIGHT)
Not known	N/A	-10°C	0.96 @ 25°C	Not Known	49%
WEIGHT PER GALLON	pH:	VAPOR PRESSURE	VAPOR DENSITY	DENSITY	EVAPORATION RATE BASIS (N-BUAC) = 1
8.0 lbs/gal @ 77°F	9 - 11	Not Available	Not Known	See specific gravity.	Not Known
SOLUBILITY IN WATER: Soluble		REACTIVITY IN WATER: N/A			
APPEARANCE AND ODOR: Color may vary from amber to pale yellow liquid; slight amine odor.					

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	METHOD	FLAMMABLE LIMITS IN AIR (%)	AUTOIGNITION TEMPERATURE		
> 200°F	Pensky-Martin	Not available	Not available		
NFPA CODES	HEALTH	2	HMIS CODES:	HEALTH	2
	FLAMMABILITY	1		FLAMMABILITY	1
	REACTIVITY	0		REACTIVITY	0
	OTHER	N/A		PROTECTION	D
EXTINGUISHER MEDIA: Alcohol foam, CO ₂ , dry chemical, water					

SPECIAL FIRE FIGHTING PROCEDURES: Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion are toxic.

Osmose MATERIAL SAFETY DATA SHEET

SECTION V - REACTIVITY DATA

IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING/STORAGE (Y/N)? Y

CONDITIONS TO AVOID (REGARDING STABILITY): None Known

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials, and oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION POSSIBLE (Y/N)? N

CONDITIONS TO AVOID (REGARDING POLYMERIZATION): N/A

SECTION VI - HEALTH HAZARDS

EMERGENCY OVERVIEW: Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Do not get in eyes, on skin or clothing. Do not breathe vapor. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Harmful if absorbed through the skin.

ROUTES OF ENTRY: Skin contact and eye contact.

SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE: There is no information available on effects of overexposure. Based upon animal toxicity information available for this and closely related materials, the following effects can be anticipated: Direct skin or eye contact may produce severe irritation and/or chemical burns with possibly irreversible tissue damage. Ingestion can cause immediate burning pain in the mouth, throat and abdomen with severe swelling of the larynx. Ingestion may cause skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions. May be fatal if ingested.

CHRONIC OVEREXPOSURE: None known

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?:

- NATIONAL TOXICOLOGY PROGRAM (Y/N): N
- IARC MONOGRAPHS (Y/N): N
- OSHA (Y/N): N

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

ACUTE AND CHRONIC TOXICITY: The toxicology information provided below is for this material and closely related materials:

- Oral LD₅₀ (rat): 245 mg/kg
- Skin Irritation (rabbit): Corrosive
- Photosensitization (Guinea pig): Not a sensitizer or photoallergen

GENOTOXICITY/MUTAGENICITY: For N,N-Dialkyl-N-, N-dimethylammonium chloride –

- Ames test (in vitro – Salmonella sp.): Not mutagenic.
- CHO/HGPRT Assay (in vitro – CHO cells): Not mutagenic.
- Unscheduled DNA Synthesis (in vitro – CHO cells): No increase in activity
- Chromosome Aberration (in vitro – CHO cells): Not clastogenic with or without metabolic activation.

REPRODUCTIVE TOXICITY INFORMATION: For N,N-Dialkyl-N-, N-dimethylammonium chloride:

- two generation reproductive/developmental study (rat-oral): No evidence of reproductive or developmental toxicity effect was observed at exposure doses ranging from 10 – 50 mg/kg/day.
- Developmental (rabbit – oral): No evidence of developmental toxic effects was noted at exposure doses ranging from 10 – 50 mg/kg/day administered from 6 through 15 of gestation.



EMERGENCY AND FIRST AID PROCEDURES



① EMERGENCY PHONE NUMBER OF MANUFACTURER: CHEMTREC 1(800) 424-9300

Chemically contaminated personnel must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of label and MSDS to physician or health-care professional with victim.

1. INHALATION: If inhaled, remove from area to fresh air. Get immediate medical attention. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available.
2. EYE CONTACT: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician is not available, flush for additional 15 minutes and then transport victim to medical care.
3. SKIN CONTACT: Wash with plenty of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.
4. INGESTION: Immediately give 3 – 4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting does occur, give fluids again. Get medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person.

Osmose MATERIAL SAFETY DATA SHEET

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Preventive measures against circulatory shock should be followed, as well as, measures to support respiration including manually or mechanically, including providing oxygen, if needed.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

UNITED STATES DEPARTMENT OF TRANSPORTATION SHIPPING DESCRIPTION:
Corrosive liquid, n.o.s., 8, UN1760, PGIII (N, N-Dialkyl-N, N-dimethylammonium bicarbonate/carbonate)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Maximum storage temperature is 140°F. Keep containers closed when not in use. Do not contaminate drinking water, food or feed additive.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Danger! Corrosive liquid. Floors may become slippery. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mists of vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHODS: Dispose of in compliance with all Federal, State and local laws and regulations. Incineration is the preferred method.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls. Individuals who enter pressure treatment cylinders and other related equipment that are contaminated with the wood treatment solution (e.g., cylinders that are in operation or are not free of the treatment solution) must wear a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

VENTILATION REQUIREMENTS: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

PROTECTIVE GLOVES: Rubber or neoprene, to prevent skin contact.

EYE PROTECTION: Wear chemical splash goggles or face-shield where there is a potential for eye contact. Use safety glasses with side shields under typical conditions, where face or eye contact is unlikely.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: EYE wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact. Individuals who enter pressure treatment cylinders and other related equipment that are contaminated with the wood treatment solution (e.g., cylinders that are in operation or are not free of the treatment solution) must wear the following PPE: long-sleeved shirt and long-pants, chemical-resistant gloves, chemical resistant footwear plus socks and protective eyewear

WORK/HYGIENIC PRACTICES: As with all chemicals, avoid getting this solution on you or in you. Wash hands after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Remove contaminated clothing immediately. Use ventilation and other engineering controls to minimize exposure to mists or sprays of this product.

SECTION IX - ECOLOGICAL INFORMATION

AQUATIC:

- LC₅₀ (rainbow trout – 96 hour – Static): 0.810 mg/l
- LC₅₀ (bluegill sunfish – 96 hour – Static/Renewal): 0.28 mg/l
- LC₅₀ (Sheepshead Minnow – 96 hour Static/Renewal): 1.110 mg/l
- EC₅₀ (Daphnia magna – 48 hour – Static): 0.073 mg/l
- LC₅₀ (mysid shrimp – 96 hour – static): 0.066 mg/l

Osmose MATERIAL SAFETY DATA SHEET

SECTION X - REGULATORY INFORMATION:

SARA/TITLE III ;SECTION 312 - HAZARD CATEGORIES:

Immediate (Acute) Health: Yes Reactive Hazard: No
 Delayed (Chronic) Health: No Sudden Release of Pressure: No
 Fire Hazard: Yes

SECTION 302:

N/A

SECTION 304:

N/A

SECTION 311 & 312:



































Storage of Carbo-NT will subject you to reporting under Section 311 and 312 of SARA. Under Section 311 you are required to submit material safety data sheets to your Local Emergency Planning Committee (LEPC), your State Emergency Response Commission (SERC) and your local fire department. Under Section 312 you are required to submit a Tier I or II Inventory Form to your LEPC, SERC and local fire department by March 1st of each year.

SECTION 313:

This portion of the act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities as listed in 40 CFR 372, are met or exceeded: Methanol, CAS #67-56-1; Typical Maximum Concentration 3%.

CALIFORNIA PROPOSITION 65 – This product contains N-Nitrosodimethylamine (CAS #62-75-9) at 100 ppb. This chemical is known to the State of California to cause cancer.

HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) PERSONAL PROTECTION INDEX

A 	H  +  +  + 
B  + 	I  +  + 
C  +  + 	J  +  +  + 
D  +  + 	K  +  +  + 
E  +  + 	X Ask your supervisor for guidance
F  +  +  + 	
G  +  + 	

N/A = Not Applicable

NOTICE: The information herein is given in good faith but no warranty, expressed or implied, is made, and Osmose, Inc. expressly disclaims liability from reliance on such information. Information on this form is furnished for the purpose of compliance with the Occupational Safety and Health Act of 1970 and shall not be used for any other purpose. Use or dissemination of all or any part of this information for any other purpose may result in a violation of law or constitute grounds for legal action.

Osmose MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET: **MicroPro 200C**

SECTION I

MSDS NUMBER:	217-osm
MSDS CODE:	OSM
SYNONYMS:	N/A
MANUFACTURED BY:	Osmose, Inc.
EPA REGISTRATION NUMBER:	3008-92
VENDOR:	N/A
EMERGENCY PHONE:	CHEMTREC: 1(800) 424-9300
OTHER CALLS:	716-882-5905
ADDRESS:	980 Ellicott Street, Buffalo NY 14209
MSDS PREPARED BY:	Teri Muchow
DATE PREPARED:	January 25, 2006
DATE LAST REVISED:	April 24, 2006 (replaces January 25, 2006)

CHEMTREC'S EMERGENCY TELEPHONE NUMBER IS TO BE USED ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

HAZARD SUMMARY

CAUTION! Harmful if swallowed or absorbed through skin.

- Eyes - May cause irritation.
- Skin - Certain individuals may be sensitive to copper. May cause irritation
- Ingestion - May be harmful swallowed. May cause burning pain in mouth, esophagus and stomach.
- Inhalation - May cause irritation to the upper respiratory tract.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

TRADE NAME: MicroPro 200C	CAS	OSHA PEL	ACGIH TLV	OTHER	%
Copper Carbonate*	12069-69-1	1 mg/m ³ Copper dusts & mists as Cu 0.1 mg/m ³ Copper fume as Cu	1 mg/m ³ Copper dusts & mists as Cu 0.2 mg/m ³ Copper fume as Cu	N/A	57.6%
Dispersant	N/A - Mixture	None Established	None Established	N/A	7 - 10 %
Sodium Nitrite	7632-00-00	N/A	N/A	RQ = 100 lbs.	2.0 %
Water	7732-18-5	None	None	N/A	15 - 20 %

*Copper oxide equivalent 41.70%; Copper Metallic Equivalent 33.31%

SECTION III - CHEMICAL CHARACTERISTICS

BOILING POINT	MELTING POINT	FREEZING POINT	SPECIFIC GRAVITY (H ₂ O = 1)	THEORETICAL VOC CONTENT (PERCENT OF WEIGHT)	
Not Determined	N/A	Not Determined	1.76	Not Determined	
WEIGHT PER GALLON	pH:	VAPOR PRESSURE	VAPOR DENSITY	DENSITY	EVAPORATION RATE BASIS (N-BUAC) = 1
14.66 lbs/gal.	9.21	Not Determined	Not Determined	See specific gravity	Not Determined
SOLUBILITY IN WATER: Soluble		REACTIVITY IN WATER: N/A			
APPEARANCE AND ODOR: Light green opaque, aqueous dispersion. Latex paint-like odor.					

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	METHOD	FLAMMABLE LIMITS IN AIR (%)	AUTOIGNITION TEMPERATURE
Not Determined	N/A	N/A	N/A

Osmose MATERIAL SAFETY DATA SHEET

NFPA CODES	HEALTH	2	HMIS CODES:	HEALTH	2
	FLAMMABILITY	0		FLAMMABILITY	0
	REACTIVITY	0		REACTIVITY	0
	OTHER	N/A		PROTECTION	D
EXTINGUISHER MEDIA: Use extinguishing agents appropriate for surrounding fire.					

SPECIAL FIRE FIGHTING PROCEDURES: When responding to a fire, wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Stay upwind and keep out of low areas.

SECTION V - REACTIVITY DATA

IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING/STORAGE (Y/N)? Y

CONDITIONS TO AVOID (REGARDING STABILITY): None Known

INCOMPATIBILITY (MATERIALS TO AVOID): Sodium hypobromite, acetylene, hydrazine, nitromethane, strong acids and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce acrid smoke and toxic fumes.

HAZARDOUS POLYMERIZATION POSSIBLE (Y/N)? N

CONDITIONS TO AVOID (REGARDING POLYMERIZATION): N/A

SECTION VI - HEALTH HAZARDS

EMERGENCY OVERVIEW: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wear goggles, face shield or safety glasses and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse. **ROUTES OF ENTRY:** Skin contact and eye contact.

SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE:

Swallowing

May cause burning pain in mouth, esophagus and stomach. Hemorrhagic gastritis, nausea, vomiting, abdominal pain, metallic taste and diarrhea may occur. If vomiting does not occur immediately systemic copper poisoning may occur. Symptoms may include capillary damage, headache, cold sweat, weak pulse, kidney and liver damage, central nervous excitation followed by depression, jaundice, convulsions, blood effects, paralysis and coma. Death could occur from shock or renal failure.

Skin Exposure

Certain individuals may be sensitive to copper. May cause irritation

Eye Contact

May cause irritation.

Inhalation

May cause irritation to the upper respiratory tract. Symptoms may include coughing, sore throat and shortness of breath.

CHRONIC OVEREXPOSURE: Prolonged or repeated skin exposure to copper may cause dermatitis.

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?:

- NATIONAL TOXICOLOGY PROGRAM (Y/N): N
- IARC MONOGRAPHS (Y/N): N
- OSHA (Y/N): N

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

ACUTE AND CHRONIC TOXICITY:

- Oral LD₅₀ (rat): > 2,000 mg/kg
- Acute Dermal LD₅₀ (rat): > 2,000 mg/kg
- Acute Inhalation LC₅₀ (rat): > 2.06 mg/L
- Skin Irritation (rabbit): Slightly irritating to the skin
- Eye Irritation (rabbit): Minimally irritating to the eye.
- Skin sensitization (Guinea pig): Not a sensitizer



EMERGENCY AND FIRST AID PROCEDURES



EMERGENCY PHONE NUMBER OF MANUFACTURER: CHEMTREC 1(800) 424-9300

Chemically contaminated personnel must be taken for medical attention. Rescuers should be taken for medical attention if necessary. Take a copy of label and MSDS to physician or health-care professional with victim.

Osmose MATERIAL SAFETY DATA SHEET

1. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
2. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
3. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
4. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Take appropriate action to counteract symptoms.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

UNITED STATES DEPARTMENT OF TRANSPORTATION SHIPPING DESCRIPTION:

Environmentally hazardous substance, liquid, n.o.s., 9, UN3082, PGIII, RQ
(contains sodium nitrite)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep containers closed when not in use. Do not contaminate drinking water, food or feed additive.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mists of vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHODS: Dispose of in compliance with all Federal, State and local laws and regulations.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: As necessary to meet exposure limits stated in Section II. Refer to the MSDSs of all products used in conjunction with this product.

VENTILATION REQUIREMENTS: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

PROTECTIVE GLOVES: Rubber gloves to prevent skin contact.

EYE PROTECTION: Wear chemical splash goggles or face-shield where there is a potential for eye contact. Use safety glasses with side shields under typical conditions, where face or eye contact is unlikely.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

WORK/HYGIENIC PRACTICES: As with all chemicals, avoid getting this solution on you or in you. Protective clothing must be changed when it shows signs of contamination. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Applicators must not eat or drink, or use tobacco products during those parts of the application process that may expose them to the wood treatment formulation (e.g., manually opening/closing cylinder doors, moving trams out of cylinders, mixing chemicals, handling freshly treated wood).

NOTE: For additional control measures, refer to the MSDSs of all products used in conjunction with this product. If the use of another product requires a higher level of protective equipment, then the PPE requirements of that product should be followed.

SECTION IX - REGULATORY INFORMATION:

SARA/TITLE III

SECTION 302:

N/A

SECTION 304:

Sodium nitrite has a SARA/CERCLA RQ of 100 pounds. Spill or releases resulting in the loss of this ingredient at or above its RQ requires immediate notification to the National Response Center and to your Local Emergency Response Planning Committee.

Osmose MATERIAL SAFETY DATA SHEET

SARA Information Continued:

SECTION 311 & 312:

Storage of this product will subject you to reporting under Section 311 and 312 of SARA. Under Section 311 you are required to submit material safety data sheets to your Local Emergency Planning Committee (LEPC), your State Emergency Response Commission (SERC) and your local fire department. Under Section 312 you are required to submit a Tier I or II Inventory Form to your LEPC, SERC and local fire department by March 1st of each year.

SECTION 312 - HAZARD CATEGORIES:


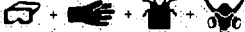
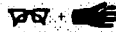


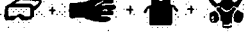
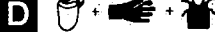
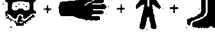

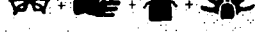

Immediate (Acute) Health: Yes Reactive Hazard: No
 Delayed (Chronic) Health: No Sudden Release of Pressure: No
 Fire Hazard: No

SECTION 313:

This portion of the act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities as listed in 40 CFR 372, are met or exceeded: Copper Carbonate (CAS #12069-69-1) is reportable as a copper compound; Sodium Nitrite is a SARA 313 listed chemical. CAS numbers and weight percents are found in Section 2.

CALIFORNIA PROPOSITION 65 – This product is not regulated under California Proposition 65.

**HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS)
 PERSONAL PROTECTION INDEX**

A 	H 
B 	I 
C 	J 
D 	K 
E 	X Ask your supervisor for guidance
F 	
G 	

N/A = Not Applicable

NOTICE: The information herein is given in good faith but no warranty, expressed or implied, is made, and Osmose, Inc. expressly disclaims liability from reliance on such information. Information on this form is furnished for the purpose of compliance with the Occupational Safety and Health Act of 1970 and shall not be used for any other purpose. Use or dissemination of all or any part of this information for any other purpose may result in a violation of law or constitute grounds for legal action.