THE TOWNSHIP OF EWING
Municipal Complex
2 Jake Garzio Drive
Ewing, NJ 08628

Phone: (609) 883-2900
Admin. Fax: (609) 538-0729
Clerk Fax: (609) 771-0480
Web Address: www.ewingnj.org

November 10, 2020

Derek Grothusen
EnviroSure, Inc.
Email: opra+request-18251-ef2a0d8a@requests.opramachine.com

Mr. Grothusen:

The Ewing Township Clerk's Office received your Open Public Records Act (OPRA) request on October 30, 2020. The official Records Custodian, Kim Macellaro, received your OPRA request on October 30, 2020. As such, the seven (7) business day deadline to respond to your request is November 10, 2020. This response to your request is being provided to you on the 7th business day after the custodian's receipt of said request.

Your OPRA requested the following:

1. 701 Charles Ewing Boulevard - EnviroSure is conducting a Phase I ESA so we are requesting a search of all files pertaining to the property. Especially, underground storage tanks, environmental concerns, building permits, and ownershiop records.

Please see the responses from the Construction Department, the Health Department, and the Assessor's Office.

This response is being provided to you in its entirety with any necessary redactions according to N.J.S.A. 47:1A-1.1. These records are being transmitted you via e-mail as per your request. Pursuant to N.J.S.A. 47:1A-5.b., the cost associated with this request is zero.

If your request for access to a government record has been denied or unfilled within the seven (7) business days required by law, you have a right to challenge the decision by the Ewing Township Clerk's Office to deny access. At your option, you may either institute a proceeding in the Superior Court of New Jersey or file a complaint with the Government Records Council (GRC) by completing the Denial of Access Complaint Form. You may contact the GRC by toll-free telephone at 866-850-0511, by mail at P.O. Box 819, Trenton, NJ, 08625, by e-mail at grc@dca.state.nj.us, or at their web site at www.state.nj.us/grc. The GRC can also answer other questions about the law. All questions regarding complaints filed in Superior Court should be directed to the Court Clerk in your County.

Sincerely,

Susan Bate

Susan Bate, Deputy Municipal Clerk
Ewing Township
Tel: 1 609 883 2900 ext. 7658

1102 BLOCK 225-01 LOT 1-03 QUAL. UPDATED ON 073120

---------OWNER INFORMATION---------
LRF EWING NJ LLC %NEWMARK KNIGHT FR
1240 HEADQUARTERS PLAZA
MORRISTOWN, NJ 07960

DED AMT #OWN 01
BANK# 660 MORT# SS#

---------PROPERTY INFORMATION---------
PROP LOC: 701-801 CHARLES EWING BLV
PROPERTY CLASS 4A ACCOUNT#
BLDG DESC F M C CORP
LAND/ACRE 20.552 AC / 20.55
ADDITIONL LOTS

ZONE MAP 33 USER#1 #2
BULT 1980 UNITS 01 BCLASS 10
VCS IP6 SFLA 58800

----------SALES INFORMATION----------

	DATE	BOOK	PAGE	PRICE	PCD	NU	4TYPE
CUR:	080416	06259	1334	30640000	Z	29	561
-1:	122812	06162	01756	8500000		A	
-2:	122812	06166	21756	8500000			

-----TENANT REBATE----

BASE YR	TAXES	FLAG
17	999925.00	N

-------EXEMPT PROPERTY DATA-------
EPL CD STAT.
FACILITY CHANGE FOR 2021
INIT FILE FUR FILE 062620
ASMT CODE

---VALUES---
LAND 2325800
IMPR 18674200
EXM1
EXM2
EXM3
EXM4
NET 21000000
OLDID:

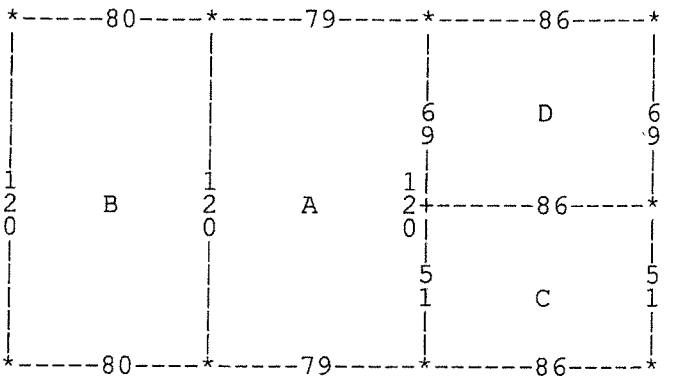
--------TAXES--------
20 TOTAL 968520.00
21 HALF1 484260.00
21 TOTAL .00
22 HALF1 .00
SPTAX CDS: F02

NEXT ACCESS: BLK LOT QUAL
EN=CHANGE F1=NO ACTION F3=ASSMT HISTORY F5=RECORD CARD F7=MORE

BLK 225.01 701-801 CHARLES EWING BLV LRF EWING NJ LLC %NEWMARK KNIGHT FR
LOT 1.03 20.552 AC SALE DATE 080416 PRICE 30640000
CARD 01 OF 02 VCS= IP6 CLASS= 4A ZONE= MAP= 33 BLDG CLS= 10 YR BUILT= 1980 INT COND= AVERAGE EXT COND= AVERAGE LAY COND= AVERAGE

---- BUILDING CALCULATIONS ----

DESCRIPT	UNITS	RATE	QFAC	VALUE
REPLACEMENT COST (1975)				0
COST CONVERSION FACTOR				1.55
REPLACEMENT COST NEW				0
NET CONDITION (1980)				.940
APPRAISED BLDG. VALUE				0
ACCESS/FARM BUILDINGS				0
TOTAL IMPROVEMENT VALUE				0



MAIN BUILDING AREAS

DESCRIPT.	BSMT	FRST	UPPR	HALF	ATTC
A 2S-S		9480	9480		
B 2S-S		9600	9600		
C 2S-S		4386	4386		
D 2S-S		5934	5934		
TOTAL		29400	29400		

**** LAND CALCULATIONS ****

FRNT	AVER DPTH	DPTH FAC.	NO OF UNITS	UNIT RATE	---ADJUSTMENT--- INFL(+)	COND(-)	VALUE
PRIME ACRE			14.55	150000		99 .02	2138850
RSDUAL ACR			6.00	35000		99 .11	186900
* TOTAL LAND VALUE							2325750

--- FINAL VALUATION SUMMARY ---

LAND	IMPROVEMENT	TOTAL
2,325,800	0	2,325,800

FMC AGRICULTURAL PRODUCTS. TWO BUILDING S TOTAL SQUARE FEET CHANGE FOR 2020 TO 24,000,000; CHANGE FOR 2021 TO 21,000,000.

** FIXED VALUE OVERRIDE ** LAND IMPROVE TOTAL
2325800 18674200 21000000

**** END OF PRINT ****

Susan Bate

From: sbate@ewingnj.org
Sent: Monday, November 9, 2020 4:07 PM
To: Susan Bate; Susan Bate
Subject: OPRA AssignmentOPRA-Req-20-0879.2

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

<http://www.sdlportal.appspot.com/static/images/SDL_Portal_logo_240x40.png>

OPRA-Req-20-0879
Date Received: 10/30/2020
Status: Received
Applicant: Derek Grothusen
Information Requested: EniroSure is conducting a Phase I ESA at 701 Charles Ewing Boulevard. We are requesting a search of all files pertaining to the property. Especially, undergound storage tanks, environmental concerns, guilding permits, and ownership records. Electronic copies are preferred if available.
OPRA-Req-20-0879.2
Date Assigned: 10/30/2020
Status: Completed
Date Completed: 11/4/2020

Directive: Construction

Response: All of the attached permits have been closed out

Spatial Data Logic 2020

CONSTRUCTION PERMIT

Date Issued 5/16/2012
Control # 45464
Permit # 20120704

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier

Work Site Location: 701 CHARLES EWING BLVD EWING, NJ

Contractor MAJEK FIRE PROTECTION
Address P O BOX 39 THOROFARE NJ 08086

Owner in Fee BP 95 LLC
10350 BREN ROAD WEST MINNETONKA NJ 55343

Telephone: (856) 845-4800
Lic. No. or Bldrs. Reg. No.

Telephone: (610) 818-4444

Federal Employee. No. 22-2396080

Is hereby granted permission to perform the following work:

- [x] BUILDING
- [ ] PLUMBING
- [ ] LEAD HAZARD ABATEMENT
- [ ] ELECTRICAL
- [x] FIRE PROTECTION
- [ ] DEMOLITION
- [ ] ELEVATOR DEVICES
- [ ] ASBESTOS ABATEMENT (Subchapter 8 only)
- [ ] OTHER

DESCRIPTION OF WORK:

HIGH DENSITY SHELVING & INSTALLATION OF ONE SPRINKLER HEAD

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work $13,500

Construction Official

5/16/2012
Date

PAYMENTS (Office Use Only)

Building	$450
Electrical	$0
Plumbing	$0
Fire Protection	$65
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$23
CO Fee	
Other	$0
Total	$538
Check No.	0026309958
Cash	$0
Credit	$0
Collected By	KB

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- [ ] Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- [ ] Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- [ ] A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- [ ] A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

CONSTRUCTION PERMIT

Date Issued 9/9/2009
Control # 39224
Permit # 20091144

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier

Work Site Location: 701 CHARLES EWING BLVD EWING, NJ

Contractor HUEN ELECTRIC
Address 9 CORPORATE DR CRANBURY NJ 08512

Owner in Fee FMC APG BUILDING
ROUTE 1 PLAINFIELD RD PRINCETON NJ 08543

Telephone: (609) 655-9111

Telephone: (609) 655-9111
Lic. No. or Bldrs. Reg. No.
Federal Employee. No.

Is hereby granted permission to perform the following work:

- ☐ BUILDING
- ☐ PLUMBING
- ☐ LEAD HAZARD ABATEMENT
- ☑ ELECTRICAL
- ☐ FIRE PROTECTION
- ☐ DEMOLITION
- ☐ ELEVATOR DEVICES
- ☐ ASBESTOS ABATEMENT (Subchapter 8 only)
- ☐ OTHER

DESCRIPTION OF WORK:

38 ACCESS CONTROL POINTS
4 CCTV CAMERAS

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $15,000

Construction Official

9/9/2009
Date

PAYMENTS (Office Use Only)

Building	$0
Electrical	$103
Plumbing	$0
Fire Protection	$0
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$26
CO Fee	
Other	$0
Total	$129
Check No.	1193
Cash	$0
Credit	$0
Collected By	tlb

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

PERMIT UPDATE

Date Update Issued 8/21/2009
Control # 39233
Permit # 20090379+C

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier
Work Site Location: 701 CHARLES EWING BLVD EWING, NJ
Contractor SORDONI CONSTRUCTION CO
Address 325 ROUTE 202/206 SOUTH BEDMINSTER NJ 07921
Owner in Fee PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850
Telephone: (908) 658-5950
Lic. No. or Bldrs. Reg. No.
Telephone: (610) 818-4444
Federal Employee. No.

Is hereby granted permission to perform the following work:

- ☐ BUILDING
- ☑ PLUMBING
- ☐ LEAD HAZARD ABATEMENT
- ☐ ELECTRICAL
- ☐ FIRE PROTECTION
- ☐ DEMOLITION
- ☐ ELEVATOR DEVICES
- ☐ ASBESTOS ABATEMENT (Subchapter 8 only)
- ☐ OTHER

DESCRIPTION OF WORK:
5 BACKFLOW PREVENTERS

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $1,000

Construction Official

8/21/2009
Date

PAYMENTS (Office Use Only)

Building	$0
Electrical	$0
Plumbing	$410
Fire Protection	$0
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$2
CO Fee	
Other	$0
Total	$412
Check No.	3972
Cash	$0
Credit	$0
Collected By	tlb

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

PERMIT UPDATE

Date Update Issued 8/10/2009
Control # 39107
Permit # 20081566+A

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier QFARM
Work Site Location: 701 CHARLES EWING BLVD EWING TOWNSHIP, NJ
Owner in Fee: PRINCETON SOUTH DEVELOPMENT, LLC
2099 GAITHER RD SUITE 100 ROCKVILLE NJ 20850
Telephone: (610) 818-4444

Contractor: OPUS EAST
Address: 610. GERMANTOWN PIKE PLYMOUTH MEETING NJ 19462
Telephone: (610) 818-4444
Lic. No. or Bldrs. Reg. No.
Federal Employee. No.

Is hereby granted permission to perform the following work:

- ☐ BUILDING
- ☐ PLUMBING
- ☐ LEAD HAZARD ABATEMENT
- ☑ ELECTRICAL
- ☐ FIRE PROTECTION
- ☐ DEMOLITION
- ☐ ELEVATOR DEVICES
- ☐ ASBESTOS ABATEMENT (Subchapter 8 only)
- ☐ OTHER

DESCRIPTION OF WORK:
6 LIGHT POLES

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $3,500

Construction Official — 8/10/2009 Date

PAYMENTS (Office Use Only)

Building	$0
Electrical	$123
Plumbing	$0
Fire Protection	$0
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$6
CO Fee	
Other	$0
Total	$129
Check No.	5220
Cash	$12
Credit	$0
Collected By	lg

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

PERMIT UPDATE

Date Update Issued 8/10/2009
Control # 38653
Permit # 20090379+A

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier
Work Site Location: 701 CHARLES EWING BLVD EWING, NJ
Contractor SORDONI CONSTRUCTION CO
Address 325 ROUTE 202/206 SOUTH BEDMINSTER NJ 07921
Owner in Fee PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850
Telephone: (908) 658-5950
Lic. No. or Bldrs. Reg. No.
Telephone: (610) 818-4444
Federal Employee. No.

Is hereby granted permission to perform the following work:

- ☐ BUILDING
- ☐ PLUMBING
- ☐ LEAD HAZARD ABATEMENT
- ☐ ELECTRICAL
- ☑ FIRE PROTECTION
- ☐ DEMOLITION
- ☐ ELEVATOR DEVICES
- ☐ ASBESTOS ABATEMENT (Subchapter 8 only)
- ☐ OTHER

DESCRIPTION OF WORK:
92 SPRINKLER HEADS

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $56,000

Construction Official — Date 8/10/2009

PAYMENTS (Office Use Only)

Building	$0
Electrical	$0
Plumbing	$0
Fire Protection	$100
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$95
CO Fee	
Other	$0
Total	$195
Check No.	303484
Cash	$0
Credit	$0
Collected By	TLB

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

PERMIT UPDATE

Date Update Issued 8/6/2009
Control # 38677
Permit # 20090379+B

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier
Work Site Location: 701 CHARLES EWING BLVD EWING, NJ
Owner in Fee: PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850
Telephone: (610) 818-4444

Contractor: SORDONI CONSTRUCTION CO
Address: 325 ROUTE 202/206 SOUTH BEDMINSTER NJ 07921
Telephone: (908) 658-5950
Lic. No. or Bldrs. Reg. No.
Federal Employee. No.

Is hereby granted permission to perform the following work:

- ☐ BUILDING
- ☐ PLUMBING
- ☐ LEAD HAZARD ABATEMENT
- ☐ ELECTRICAL
- ☑ FIRE PROTECTION
- ☐ DEMOLITION
- ☐ ELEVATOR DEVICES
- ☐ ASBESTOS ABATEMENT (Subchapter 8 only)
- ☐ OTHER

DESCRIPTION OF WORK:
ALARM DEVICES, SUPERVISORY DEVICES

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $7,500

Construction Official

8/6/2009
Date

PAYMENTS (Office Use Only)

Building	$0
Electrical	$0
Plumbing	$0
Fire Protection	$50
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$13
CO Fee	
Other	$0
Total	$63
Check No.	303426
Cash	$0
Credit	$0
Collected By	lg

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

PERMIT UPDATE

Date Update Issued 7/1/2009
Control # 38978
Permit # 20090138+C

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier qQFARM
Work Site Location: 701 CHARLES EWING BLVD EWING, NJ
Contractor SORDONI CONSTRUCTION CO
Address 325 ROUTE 202/206 SOUTH BEDMINSTER NJ 07921

Owner in Fee PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850
Telephone: (908) 658-5950
Lic. No. or Bldrs. Reg. No.

Telephone: (610) 818-4444
Federal Employee. No.

Is hereby granted permission to perform the following work:

- ☐ BUILDING
- ☐ PLUMBING
- ☐ LEAD HAZARD ABATEMENT
- ☑ ELECTRICAL
- ☐ FIRE PROTECTION
- ☐ DEMOLITION
- ☐ ELEVATOR DEVICES
- ☐ ASBESTOS ABATEMENT (Subchapter 8 only)
- ☐ OTHER

DESCRIPTION OF WORK:

3-25kw central ac units-temp units 200 kw generator
200 amp temp service
30 kva transformer

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $4,500

Construction Official — Date 7/1/2009

PAYMENTS (Office Use Only)

Building	$0
Electrical	$750
Plumbing	$0
Fire Protection	$0
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$8
CO Fee	
Other	$0
Total	$758
Check No.	2321
Cash	$0
Credit	$0
Collected By	TLB

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

PERMIT UPDATE

Date Update Issued 5/7/2009
Control # 38282
Permit # 20090138+A

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier qQFARM
Work Site Location: 701 CHARLES EWING BLVD EWING, NJ
Contractor SORDONI CONSTRUCTION CO
Address 325 ROUTE 202/206 SOUTH BEDMINSTER NJ 07921
Owner in Fee PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850
Telephone: (908) 658-5950
Lic. No. or Bldrs. Reg. No.
Telephone: (610) 818-4444
Federal Employee. No.

Is hereby granted permission to perform the following work:

- ☐ BUILDING
- ☐ PLUMBING
- ☐ LEAD HAZARD ABATEMENT
- ☐ ELECTRICAL
- ☑ FIRE PROTECTION
- ☐ DEMOLITION
- ☐ ELEVATOR DEVICES
- ☐ ASBESTOS ABATEMENT (Subchapter 8 only)
- ☐ OTHER

DESCRIPTION OF WORK:

sprinkler

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $309,855

Construction Official — 5/7/2009 Date

U.C.C. F170
equiv (rev 1/04)

PAYMENTS (Office Use Only)

Building	$0
Electrical	$0
Plumbing	$0
Fire Protection	$500
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$527
CO Fee	
Other	$0
Total	$1,027
Check No.	26133598
Cash	$0
Credit	$0
Collected By	tlb

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

CONSTRUCTION PERMIT

Date Issued 4/7/2009
Control # 38209
Permit # 20090378

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier

Work Site Location: 701 CHARLES EWING BLVD EWING, NJ

Owner in Fee: PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850

Telephone: (610) 818-4444

Contractor: ROUGH BROTHERS, INC
Address: 5513 VINE ST CINCINNATI NJ 45217

Telephone: (513) 242-0310
Lic. No. or Bldrs. Reg. No.
Federal Employee. No.

Is hereby granted permission to perform the following work:

- [x] BUILDING
- [ ] PLUMBING
- [ ] LEAD HAZARD ABATEMENT
- [ ] ELECTRICAL
- [ ] FIRE PROTECTION
- [ ] DEMOLITION
- [ ] ELEVATOR DEVICES
- [ ] ASBESTOS ABATEMENT (Subchapter 8 only)
- [ ] OTHER

DESCRIPTION OF WORK:

greenhouse

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work $1,018,409

Construction Official

4/7/2009
Date

PAYMENTS (Office Use Only)

Building	$2,851
Electrical	$0
Plumbing	$0
Fire Protection	$0
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$328
CO Fee	$150.00
Other	$0
Total	$3,329
Check No.	0026133205
Cash	$0
Credit	$0
Collected By	tlb

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- [ ] Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- [ ] Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- [ ] A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- [ ] A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

CONSTRUCTION PERMIT

Date Issued 4/7/2009
Control # 38210
Permit # 20090379

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier

Work Site Location: 701 CHARLES EWING BLVD EWING, NJ

Owner in Fee: PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850

Telephone: (610) 818-4444

Contractor: SORDONI CONSTRUCTION CO
Address: 325 ROUTE 202/206 SOUTH BEDMINSTER NJ 07921

Telephone: (908) 658-5950
Lic. No. or Bldrs. Reg. No.
Federal Employee. No.

Is hereby granted permission to perform the following work:

- [x] BUILDING
- [x] PLUMBING
- [ ] LEAD HAZARD ABATEMENT
- [x] ELECTRICAL
- [x] FIRE PROTECTION
- [ ] DEMOLITION
- [ ] ELEVATOR DEVICES
- [ ] ASBESTOS ABATEMENT (Subchapter 8 only)
- [ ] OTHER

DESCRIPTION OF WORK:

GREENHOUSE ADDITION TO APG BUILDING-FOOTING AND FOUNDATION WORK

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work $808,000

Construction Official

4/7/2009
Date

PAYMENTS (Office Use Only)

Building	$5,680
Electrical	$396
Plumbing	$760
Fire Protection	$50
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$423
CO Fee	$150.00
Other	$0
Total	$7,459
Check No.	0026133205
Cash	$0
Credit	$0
Collected By	tlr

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

CONSTRUCTION PERMIT

Date Issued 2/17/2009
Control # 37857
Permit # 20090138

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier qQFARM
Work Site Location: 701 CHARLES EWING BLVD EWING, NJ
Contractor SORDONI CONSTRUCTION CO
Address 325 ROUTE 202/206 SOUTH BEDMINSTER NJ 07921
Owner in Fee PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850
Telephone: (908) 658-5950
Lic. No. or Bldrs. Reg. No.
Telephone: (610) 818-4444
Federal Employee. No.

Is hereby granted permission to perform the following work:

- [x] BUILDING
- [x] PLUMBING
- [ ] LEAD HAZARD ABATEMENT
- [x] ELECTRICAL
- [x] FIRE PROTECTION
- [ ] DEMOLITION
- [ ] ELEVATOR DEVICES
- [ ] ASBESTOS ABATEMENT (Subchapter 8 only)
- [ ] OTHER

DESCRIPTION OF WORK:

tenant fit out of apg building

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $15,341,823

Construction Official — Date 2/17/2009

PAYMENTS (Office Use Only)

Building	$106,921
Electrical	$6,206
Plumbing	$5,540
Fire Protection	$650
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$26,081
CO Fee	$150.00
Other	$0
Total	$145,548
Check No.	1402938163 0026132658
Cash	$0
Credit	$0
Collected By	kb

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- [ ] Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- [ ] Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- [ ] A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- [ ] A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

CONSTRUCTION PERMIT

Date Issued 12/24/2008
Control # 37647
Permit # 20081835

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier

Work Site Location: 701 CHARLES EWING BLVD EWING, NJ

Owner in Fee: PRINCETON SOUTH DEVELOPMENT
2099 GAITHER ROAD ROCKVILLE NJ 20850

Telephone: (610) 818-4444

Contractor: SORDONI CONSTRUCTION CO
Address: 325 ROUTE 202/206 SOUTH BEDMINSTER NJ 07921

Telephone: (908) 658-5950
Lic. No. or Bldrs. Reg. No.
Federal Employee. No.

Is hereby granted permission to perform the following work:

- [x] BUILDING
- [x] PLUMBING
- [ ] LEAD HAZARD ABATEMENT
- [ ] ELECTRICAL
- [ ] FIRE PROTECTION
- [ ] DEMOLITION
- [ ] ELEVATOR DEVICES
- [ ] ASBESTOS ABATEMENT (Subchapter 8 only)
- [ ] OTHER

DESCRIPTION OF WORK:

installation of concrete work on grade level and floor drains

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $470,000

Construction Official

12/24/2008
Date

PAYMENTS (Office Use Only)

Building	$5,005
Electrical	$0
Plumbing	$735
Fire Protection	$0
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$635
CO Fee	
Other	$0
Total	$6,375
Check No.	26132001
Cash	$0
Credit	$0
Collected By	lg

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- [ ] Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- [ ] Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- [ ] A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- [ ] A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

CONSTRUCTION PERMIT

Date Issued 10/17/2008
Control # 37326
Permit # 20081566

IDENTIFICATION Block: 225.01 Lot: 1.03 Qualifier QFARM
Work Site Location: 701 CHARLES EWING BLVD EWING TOWNSHIP, NJ
Owner in Fee PRINCETON SOUTH DEVELOPMENT, LLC
2099 GAITHER RD SUITE 100 ROCKVILLE NJ 20850
Telephone: (610) 818-4444
Contractor OPUS EAST
Address 610. GERMANTOWN PIKE PLYMOUTH MEETING NJ 19462
Telephone: (610) 818-4444
Lic. No. or Bldrs. Reg. No.
Federal Employee. No.

Is hereby granted permission to perform the following work:

- [x] BUILDING
- [x] PLUMBING
- [ ] LEAD HAZARD ABATEMENT
- [x] ELECTRICAL
- [x] FIRE PROTECTION
- [ ] DEMOLITION
- [ ] ELEVATOR DEVICES
- [ ] ASBESTOS ABATEMENT (Subchapter 8 only)
- [ ] OTHER

DESCRIPTION OF WORK:
building shell bldg 701

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work $569,500

Construction Official

10/17/2008
Date

PAYMENTS (Office Use Only)

Building	$23,309
Electrical	$651
Plumbing	$345
Fire Protection	$50
Elevator Devices	$0
Other	$0.00
DCA Training Fee	$2,745
CO Fee	$150.00
Other	$0
Total	$27,250
Check No.	37876
Cash	$0
Credit	$0
Collected By	en

U.C.C. F170
equiv (rev 1/04)

1 WHITE - INSPECTOR 2 CANARY - OFFICE 3 PINK - TAX ASSESSOR 4 GOLD - APPLICANT

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- [ ] Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- [ ] Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- [ ] A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- [ ] A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

Susan Bate

From: sbate@ewingnj.org
Sent: Monday, November 9, 2020 4:14 PM
To: Susan Bate; Susan Bate
Subject: OPRA AssignmentOPRA-Req-20-0879.3

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

<http://www.sdlportal.appspot.com/static/images/SDL_Portal_logo_240x40.png>

OPRA-Req-20-0879
Date Received: 10/30/2020
Status: Received
Applicant: Derek Grothusen
Information Requested: EniroSure is conducting a Phase I ESA at 701 Charles Ewing Boulevard. We are requesting a search of all files pertaining to the property. Especially, undergound storage tanks, environmental concerns, guilding permits, and ownership records. Electronic copies are preferred if available.
OPRA-Req-20-0879.3
Date Assigned: 10/30/2020
Status: Completed
Date Completed: 11/9/2020

Directive:

Response: All health department records were reviewed and all pertinent records attached.

~JA.

Spatial Data Logic 2020

FMC Corporation
1735 Market Street
Philadelphia, PA 19103
Attention: Mr. Robert Forbes – Director, EHS – Remediation and Governance

Ewing 95, LLC
10350 Bren Road West
Minnetonka, MN 55343
Attention: Mr. David C. Watson – Vice President

May 17, 2013

Re: Response Action Outcome

Remedial Action Type: *Unrestricted Use*

Scope of Remediation: *ISRA Industrial Establishment as defined according to N.J.A.C. 7:26B - Leasehold*

Case Name: FMC Innovations Center
Address: 701 & 801 Charles Ewing Boulevard (formerly Ewing Lawrence Boulevard)
Municipality: Ewing Township
County: Mercer
Block: 225.01 Lot: 1.03 (Leasehold Portion)
Preferred ID: 172002
KCSL # NA
Communication Center # NA
ISRA Transaction: Sale of Property
ISRA Case # E20120239
Well Permit #: NA

Dear Mr. Forbes/Mr. Watson:

As a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey, I hereby issue this Response Action Outcome for the remediation of the *industrial establishment as defined according to N.J.A.C. 7:26B* specifically referenced above. I personally reviewed and accepted all of the referenced remediation and based upon this work, it is my professional opinion that this remediation has been completed in compliance with the Administrative Requirements for the Remediation of Contaminated Sites (N.J.A.C. 7:26C), that is protective of public health, safety and the environment. Also, full payment has been made for all Department fees and oversight costs pursuant to N.J.A.C. 7:26C-4.

This remediation includes the completion of a *Preliminary Assessment* as defined pursuant to the Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

My decision in this matter is made upon the exercise of reasonable care and diligence and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals in good standing practicing in the State at the time these professional services are performed.

As required pursuant to N.J.A.C. 7:26C-6.2(b)2ii, a copy of all records related to the remediation that occurred at this location is being simultaneously filed with the New Jersey Department of Environmental Protection (Department). These records contain all information upon which I based my decision to issue this Response Action Outcome.

By operation of law a Covenant Not to Sue pursuant to N.J.S.A. 58:10B -13.2 applies to this remediation. The Covenant Not to Sue is subject to any conditions and limitations contained herein. The Covenant Not to Sue remains effective only as long as the real property referenced above continues to meet the conditions of this Response Action Outcome.

CONDITIONS

Pursuant to N.J.S.A. 58:10B-12o, **FMC Corporation, Ewing 95, LLC,** and any other person who is liable for the cleanup and removal costs, and remains liable pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11 et seq. shall inform the Department in writing, on a form available from the Department, within 14 calendar days after its name or address changes. Any notices you submit pursuant to this paragraph shall reference the above case numbers and shall be sent to:

New Jersey Department of Environmental Protection
Bureau of Case Assignment and Initial Notice
Mail Code 401-05H
401 East State Street, 5th floor
PO Box 420
Trenton, New Jersey 08625-0420

NOTICES

ISRA Specific - Multi-Tenant Situations - Bureau of Case Assignment and Initial Notice Referral

Please be advised that this Response Action Outcome is for the leasehold portion of the above referenced property only. The leasehold portion is the area defined by **Block 225.01, Lot 1.03 (buildings 701 and 801 Charles Ewing Boulevard, the associated parking lots and storage facilities)** and identified on the enclosed map. It does not include any other areas of concern on the property.

In concluding that this remediation has been completed, I am offering no opinions concerning whether either primary restoration (restoring natural resources to their pre-discharge condition)

or compensatory restoration (compensating the citizens of New Jersey for the lost interim value of the natural resources) has been completed.

Pursuant to N.J.S.A. 58:10C-25, the Department may audit this Response Action Outcome and associated documentation up to three years following issuance. Based on a finding by the Department that a Response Action Outcome is not protective of public health, safety and the environment, the Department can invalidate the Response Action Outcome. Other justifications for the Department's invalidation of this Response Action Outcome are listed in the Administrative Requirements for the Remediation of Contaminated Sites at N.J.A.C. 7:26C-6, including, but not limited to, a Department audit following issuance of this document may be initiated at any time if: a) undiscovered contamination is found that was not addressed by the Response Action Outcome, b) if the Licensed Site Remediation Professional Board conducts an investigation of the Licensed Site Remediation Professional issuing the Response Action Outcome or, c) if the license of that person is suspended or revoked.

Thank you for your attention to these matters. If you have any questions, please contact me at (732)225-5061.

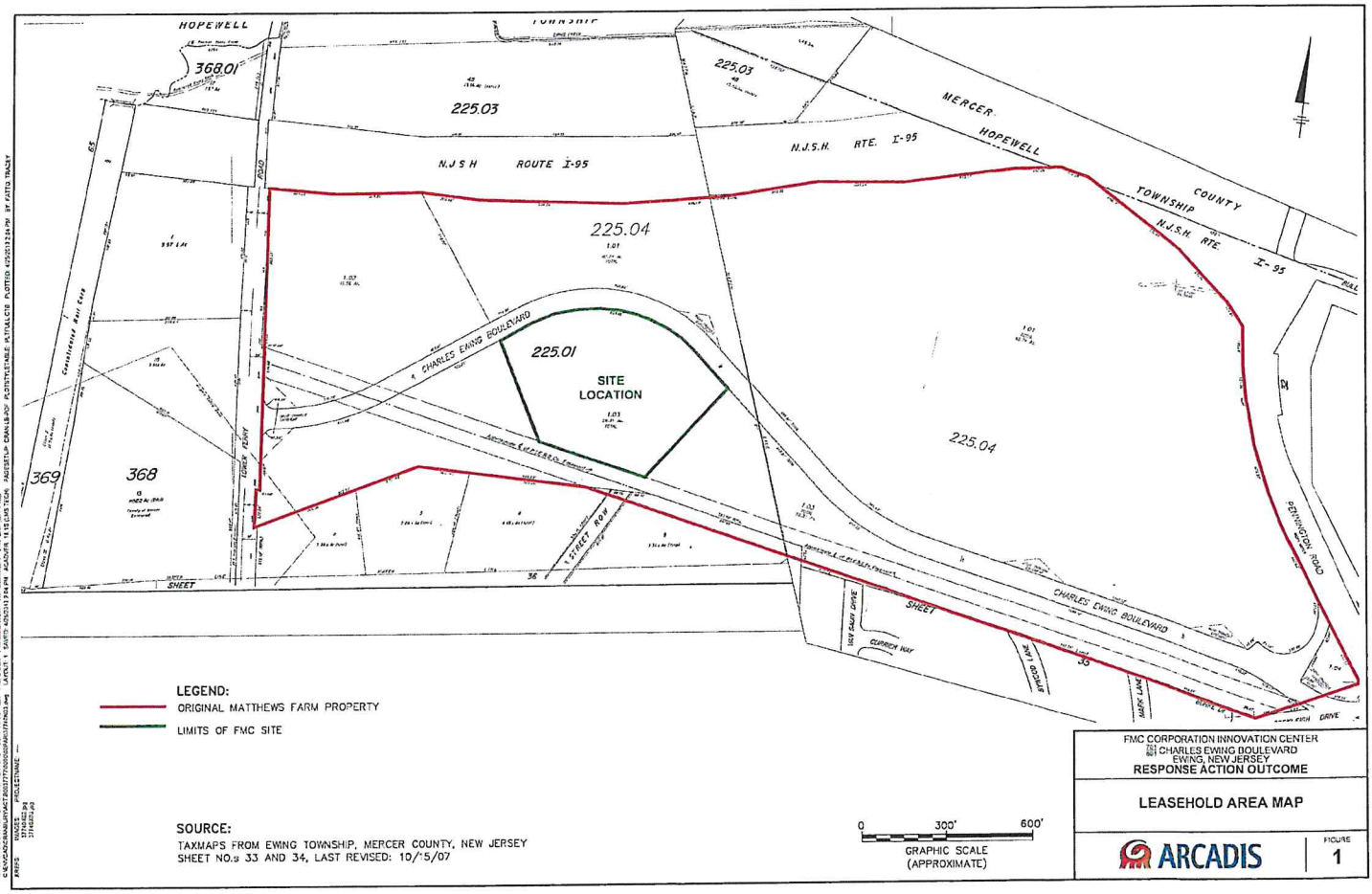
Sincerely,

M. Rabah

Majda Rabah,
Licensed Site Remediation Professional
#579493

Enclosure(s): Leasehold Area Map

c: **Virginia Franco – Ewing Township Health Department**
Mercer County Environmental Health Act Agency
Mercer County Division of Public Health
Bert Steinmann – Mayor of Ewing Township
Kimberly Macellaro – Clerk – Ewing Township
Hilary Hyser – President of Ewing Township Council
NJDEP Bureau of Case Assignment and Initial Notice
Catherine Ward – Stradley Ronon Stevens & Young, LLP
Marc Conger – ARCADIS



FMC CORPORATION INNOVATION CENTER
CHARLES EWING BOULEVARD
EWING, NEW JERSEY
RESPONSE ACTION OUTCOME

LEASEHOLD AREA MAP

ARCADIS

FIGURE 1

FMC Corporation
1735 Market Street
Philadelphia, PA 19103
Attention: Mr. Robert Forbes – Director, EHS – Remediation and Governance

Ewing 95, LLC
10350 Bren Road West
Minnetonka, MN 55343
Attention: Mr. David C. Watson – Vice President

May 17, 2013

Re: Response Action Outcome

Remedial Action Type: *Unrestricted Use*

Scope of Remediation: *ISRA Industrial Establishment as defined according to N.J.A.C. 7:26B - Leasehold*

Case Name: FMC Innovations Center
Address: 701 & 801 Charles Ewing Boulevard (formerly Ewing Lawrence Boulevard)
Municipality: Ewing Township
County: Mercer
Block: 225.01 Lot: 1.03 (Leasehold Portion)
Preferred ID: 172002
KCSL # NA
Communication Center # NA
ISRA Transaction: Sale of Property
ISRA Case # E20120239
Well Permit #: NA

Dear Mr. Forbes/Mr. Watson:

As a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey, I hereby issue this Response Action Outcome for the remediation of the *industrial establishment as defined according to N.J.A.C. 7:26B* specifically referenced above. I personally reviewed and accepted all of the referenced remediation and based upon this work, it is my professional opinion that this remediation has been completed in compliance with the Administrative Requirements for the Remediation of Contaminated Sites (N.J.A.C. 7:26C), that is protective of public health, safety and the environment. Also, full payment has been made for all Department fees and oversight costs pursuant to N.J.A.C. 7:26C-4.

This remediation includes the completion of a *Preliminary Assessment* as defined pursuant to the Technical Requirements for Site Remediation (N.J.A.C. 7:26E).

My decision in this matter is made upon the exercise of reasonable care and diligence and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals in good standing practicing in the State at the time these professional services are performed.

As required pursuant to N.J.A.C. 7:26C-6.2(b)2ii, a copy of all records related to the remediation that occurred at this location is being simultaneously filed with the New Jersey Department of Environmental Protection (Department). These records contain all information upon which I based my decision to issue this Response Action Outcome.

By operation of law a Covenant Not to Sue pursuant to N.J.S.A. 58:10B -13.2 applies to this remediation. The Covenant Not to Sue is subject to any conditions and limitations contained herein. The Covenant Not to Sue remains effective only as long as the real property referenced above continues to meet the conditions of this Response Action Outcome.

CONDITIONS

Pursuant to N.J.S.A. 58:10B-12o, **FMC Corporation, Ewing 95, LLC,** and any other person who is liable for the cleanup and removal costs, and remains liable pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:10-23.11 et seq. shall inform the Department in writing, on a form available from the Department, within 14 calendar days after its name or address changes. Any notices you submit pursuant to this paragraph shall reference the above case numbers and shall be sent to:

New Jersey Department of Environmental Protection
Bureau of Case Assignment and Initial Notice
Mail Code 401-05H
401 East State Street, 5th floor
PO Box 420
Trenton, New Jersey 08625-0420

NOTICES

ISRA Specific - Multi-Tenant Situations - Bureau of Case Assignment and Initial Notice Referral

Please be advised that this Response Action Outcome is for the leasehold portion of the above referenced property only. The leasehold portion is the area defined by **Block 225.01, Lot 1.03 (buildings 701 and 801 Charles Ewing Boulevard, the associated parking lots and storage facilities)** and identified on the enclosed map. It does not include any other areas of concern on the property.

In concluding that this remediation has been completed, I am offering no opinions concerning whether either primary restoration (restoring natural resources to their pre-discharge condition)

or compensatory restoration (compensating the citizens of New Jersey for the lost interim value of the natural resources) has been completed.

Pursuant to N.J.S.A. 58:10C-25, the Department may audit this Response Action Outcome and associated documentation up to three years following issuance. Based on a finding by the Department that a Response Action Outcome is not protective of public health, safety and the environment, the Department can invalidate the Response Action Outcome. Other justifications for the Department's invalidation of this Response Action Outcome are listed in the Administrative Requirements for the Remediation of Contaminated Sites at N.J.A.C. 7:26C-6, including, but not limited to, a Department audit following issuance of this document may be initiated at any time if: a) undiscovered contamination is found that was not addressed by the Response Action Outcome, b) if the Licensed Site Remediation Professional Board conducts an investigation of the Licensed Site Remediation Professional issuing the Response Action Outcome or, c) if the license of that person is suspended or revoked.

Thank you for your attention to these matters. If you have any questions, please contact me at (732)225-5061.

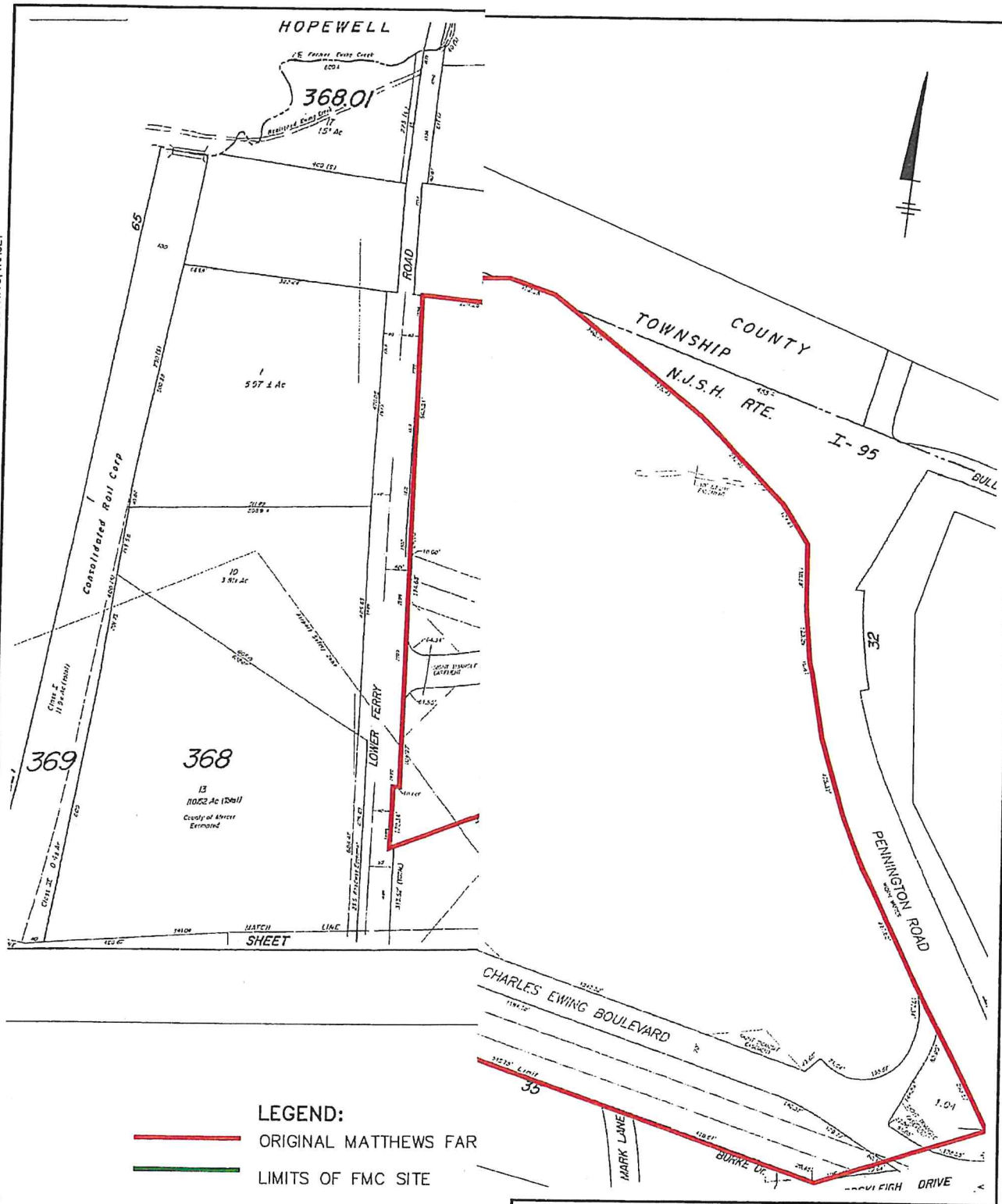
Sincerely,

M. Rabah

Majda Rabah,
Licensed Site Remediation Professional
#579493

Enclosure(s): Leasehold Area Map

c: **Virginia Franco – Ewing Township Health Department**
Mercer County Environmental Health Act Agency
Mercer County Division of Public Health
Bert Steinmann – Mayor of Ewing Township
Kimberly Macellaro – Clerk – Ewing Township
Hilary Hyser – President of Ewing Township Council
NJDEP Bureau of Case Assignment and Initial Notice
Catherine Ward – Stradley Ronon Stevens & Young, LLP
Marc Conger – ARCADIS



FMC CORPORATION INNOVATION CENTER
701/801 CHARLES EWING BOULEVARD
EWING, NEW JERSEY
RESPONSE ACTION OUTCOME

LEASEHOLD AREA MAP

ARCADIS

FIGURE 1

Possible Chemical Contamination @ FMC Corporation
@ 701 Charles Ewing Blvd (Princeton South Corporate Center)

- Fire call came into Pennington Road Fire company @ approximately 2:50 am on Friday, January 13, 2012
- Chief John Conte ( ) responded with his men
- FMC @ 701 Charles Ewing Blvd does Chemical Agricultural Research & Development (R & D)
- Initially thought to be a small, chemical fire…which caused Containment System to be activated, releasing a Foam agent (Ansulite 3% AFFF AFC-3-A)
- Prospect Heights Fire Department, West Trenton Fire Department & Trenton HAZ MAT Team also called in
- Twp dispatch called Ewing Twp Health Officer Virginia Preesada to respond but she was unable due to the distance, & Virginia Preesada requested that Mercer County CEHA be contacted for assistance. I received a call @ home @ 6:30 am from Deena Holland from MC Health Department (I was unable to answer) & a 2nd call came @ 7:30 am
- I gave Health Officer Virginia Preesada's cell phone # to Deena and then received another call that she was still unable to reach Virginia (had left messages for her)
- I then contacted Virginia myself, who advised me to go directly to site after dropping my daughter @ school
- I met with the following individuals @ FMC Corp:
- Robert Kasubinski, Operations Mgr. ( )
- Duncan Aust, Global Director of APG Innovation (.)
- Ryan Hinkle, Mgr. Health, Safety & Environmental Facility Operations ( )
- Karen Smith, RN, Occupational Health Nurse ( )
- Was being advised by onsite staff that they felt it was a broken ceiling pipe (and NOT a fire) that had caused Containment System to release the foam
- Apparently when 3 Ewing Twp. Police arrived onsite in the middle of the night (Fire called them), they were led over to Building 701 by an onsite Security Guard and the 4 men opened the door to enter the building…..they were immediately met by a fog-like cloud, with a very noxious odor…they immediately shut and backed away from the door
- Ewing Police came in 3 separate patrol cars and each officer sat in his individual car momentarily before being called in to the men's locker room to remove their clothing (immediately bagged), get hosed down in the shower and asked to put on Tybak suits
- No one was complaining of burning eyes , burning throat or any other symptoms (Security Officer was having Gastric Distress, of which he has a history)
- All 4 men were then transported to Capital Health Hopewell Campus
- 701 Building was immediately closed off and incoming staff were immediately sent to conference room or home (no staff was present inside during event)
- I came onsite @ FMC @ approximately 8:30 am….questioned appropriate personnel, asked for MSDS sheets for foam and any other chemicals that might

have been involved (was told theses sheets were given to John Conte from Pennington road Fire Co. & EMS from Capital Health System to take to hospital) and then (per Virginia Preesada) proceeded to Capital Health System(CHS) Hopewell Campus, where I gathered information and asked question of staff and 3 hospitalized police and the security officer

- I met and talked with the following individuals @ CHS @ Hopewell:
- Colleen Bowski, Nurse Mgr ( )
- Ann Lando, RN,MA, Divisional Director Patient Services ( )
- Jim Boozan ( )
- I was given the following 5 MSDS sheets by Colleen Bowski and told the only 1 they were concerned with was Chlorpyrifos, because it was an Organophosphate (which can be fatal if inhaled or ingested):
- Chlorpyrifos Technical *****
- Bipenthrin Technical Insecticide/Miticide
- Pendimethalin technical
- Clomazone Technical Herbicide
- Aromatic 200 Fluid
- The MSDS for the foam that was released was NOT sent over to the Hospital, I retrieved that later from FMC, but the Hospital had contacted Poison Control and they were familiar with this type of material and were NOT at all concerned (I later faxed the foam MSDS sheet to Colleen Bowski (nurse @ Hospital)
- Met with all 4 men @ the hospital, who were all conscious, alert, showing or complaining of no symptoms and seeking to be discharged
- I was told by Hospital staff that all their blood tests were coming up normal and not showing any signs of contamination or harm
- The 3 Ewing Twp. Police Officers were Sgt. Joseph Maglione, Officer Frank "Tom" Kownacky & Officer William Lardieri. The Security Officer was Hugh Bennett ( )
- I also spoke with Gus Tackas, who heads up Trenton HAZ MAT, who agrred that the FOAM that was released is not Hazardous but did recommend laundering their uniforms @ a facility, rather than taking them home. He also recommended wiping down their cars (inside and outside) with a mild bleach & water solution (Officer Rob Rank performed this procedure) and wiping down their personal possessions (wallets, keys, guns, radios, etc.) with warm water
- Another Ewing Twp. Police Officer remained onsite in his car @ FMS to guard their uniforms & weapons in the trunk of 1 car
- I left FMS @ approximately 12:45 and returned to the Health Department

SUMMARY:

- **Suspected cause: broken ceiling pipe**
- **Suspected agent: Foam (Ansulite 3% AFFF AFC-3-A)**

- **Those affected:** **Sgt. Joseph Maglione, Officer Frank "Tom" Kownacky, Officer William Lardieri. & Security Officer Hugh Bennett**
- **Decontamination efforts:** **Police Officers uniforms were laundered offsite @ Prospect Heights Fire Company & Officer Rob Rank wiped down the police vehicles, both inside and out, with bleach & water**
- **Responding Agencies:** **Ewing Twp. Police, Health, Code Enforcement, Mayor Bert Steinmann & Business Administrator Jim McMannimon, Pennington Rd, West Trenton & Prospect Heights Fire Departments & Trenton HAZ MAT Team**

Respectfully submitted on 1/17/12 by : Carol Martin, Ewing Twp. REHS

MATERIAL SAFETY DATA SHEET Foam

Ansulite 3 % AFFF AFC-3-A

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER			
Product Name	Ansulite 3 % AFFF AFC-3-A Foam Concentrate	Other Names	None
Recommended Use	The recommended use of this preparation is as a fire extinguishing agent.		
Supplier Name	Wormald	Address	Unit 1, 2-8 South Street Rydalmere, NSW 2116 AUSTRALIA
Telephone No.	133 166	Emergency Telephone No.	133 166 or 000
		Date Prepared	March 2008

SECTION 2: HAZARDS IDENTIFICATION			
Hazard Classification	Not hazardous		
Safety Phrase(s)	Not available	Risk Phrase(s)	Not available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS		
SUBSTANCE		
Chemical Identity of the Pure Substance	Common Name / Synonyms	CAS Number
Not applicable	Not applicable	Not applicable
MIXTURE		
Chemical Identity of Ingredients	Proportion of Ingredients	CAS Number
Diethylene Glycol Monobutyl Ether (Butyl Carbitol)	10 %	112-34-5
Tertiary Butyl Alcohol	0.4 %	75-65-0
Hexylene Glycol	0.3 %	107-41-5
Proprietary mixture of hydrocarbon surfactants, fluorosurfactants, and inorganic salts; not otherwise specified.	2 – 5 %	Not applicable
Water	80 – 90 %	7732-18-5

SECTION 4: FIRST AID MEASURES		
Description of Necessary First Aid Measures	EYE CONTACT	Flush with large amounts of water. If irritation persists, seek medical attention.
	SKIN CONTACT	Wash with soap and water. If irritation persists, seek medical attention.
	INHALATION	Remove victim to fresh air. Seek medical attention if discomfort continues.
	INGESTION	If patient is conscious, give large amounts of water and induce vomiting. Seek medical attention.
Medical Attention and Special Treatment	See above	
Aggravated Medical Conditions Caused by Exposure	Disease of the kidney and liver.	

SECTION 5: FIRE FIGHTING MEASURES			
Suitable Extinguishing Media	This is an extinguishing agent	Hazards From Combustion Products	None known, oxides of nitrogen and sulphur may be formed.
Special Protective Precautions and Equipment for Fire Fighters	None	Hazchem Code	Not hazardous

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Emergency Procedures	Prevent skin and eye contact.
Methods and Materials for Containment and Clean Up	Use an absorbent material such as sawdust, and sweep up. As much as possible, keep from being washed into surface water.

SECTION 7: HANDLING AND STORAGE	
Precautions for Safe Handling	Care should be taken in handling all chemical substances and preparations.
Conditions for Safe Storage, Including any Incompatibilities	No special conditions are needed for safe storage. Store in original container. Keep tightly closed until used. As much as possible, keep from being washed into surface water.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

	Substance	ES-TWA		ES-STEL	
		ppm	mg/m³	ppm	mg/m³
National Exposure Standards	Hexylene Glycol	25	121	Peak limitation	
	Tertiary Butyl Alcohol	100	303	150	455
Engineering Controls	Not available	Biological Limit Controls		Not available	
Personal Protection Equipment	Chemical goggles, and rubber or latex gloves.				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear straw coloured liquid	Odour	Mild sweet odour
pH	7.5	Vapour Pressure	Not determined
Vapour Density (air = 1)	< 1	Boiling Point / Range	97°C
Freezing / Melting Point (specify)	Not available	Solubility in Water	Completely soluble
Specific Gravity or Density	1.02	Flash Point	None to boiling
Upper and Lower Flammable (explosive) Limits in Air	Not applicable	Ignition Temperature	Does not ignite

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable	Conditions to Avoid	None
Incompatible Materials	Reactive metals, electrically energized equipment, any materials reactive with water and strong oxidisers.	Hazardous Decomposition Products	None known, oxides of nitrogen and sulphur may be formed.
Hazardous Reactions	None		

SECTION 11: TOXICOLOGICAL INFORMATION

Health Effects From the Likely Routes of Exposure	EYE CONTACT	May cause mild transient irritation.
	SKIN CONTACT	May cause mild transient irritation and/or dermatitis.
	INHALATION	Inhalation is not anticipated to be a problem.
	INGESTION	Irritating to mucous membranes. Large oral dose could produce narcosis.
Acute Overexposure	See above	
Chronic Overexposure	Delayed kidney injury, possible liver damage.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Components: Diethylene glycol monobutyl ether: Fish, Lepomis marcrochinus: LC_{50} (96 hrs) 1300 mg/L. Carrassius auratus: LC_{50} (24 hrs) 2700 mg/L. Daphnids, Daphnia magna: EC_{50} (24 hrs) 3184 mg/L. Algae, Scenedesmus subspicatus: EC_{50} (96 hrs) > 100 mg/L.
Mobility	Diethylene glycol monobutyl ether: Should not partition from a water column to organic matter contained in sediments and suspended solids.
Persistence and Degradability	Diethylene glycol monobutyl ether: Indirect photodegradation is about 50 % in 3.5 hours. Aerobic degradation with adapted activated sludge is 60 % after 28 days. COD = 2080 mg/g substance. BOD_5 = 250 mg O_2/g substance. Theoretical oxygen demand = 2.17 mg/mg.
Bioaccumulative Potential	Diethylene glycol monobutyl ether: Should not bioaccumulate. Estimated bioaccumulation factor (log BCF) = 0.46
Environmental Fate (Exposure)	Ozone depletion potential: None Photochemical ozone creation potential: None Global warming potential: None

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods and Containers	As much as possible, keep from being washed into surface water. Dispose of in compliance with local, state and Commonwealth regulations that may be in force.
Special Precautions for Landfill or Incineration	Not available

SECTION 14: TRANSPORT INFORMATION			
UN Number	Not applicable	UN Proper Shipping Name	Not applicable
Class and Subsidiary Risk	Not applicable	Packing Group	Not applicable
Special Precautions for User	None	Hazchem Code	Not hazardous

SECTION 15: REGULATORY INFORMATION	
The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation.	Not available

SECTION 16: OTHER INFORMATION	
Date of Preparation	March 2008

END OF MSDS

Contact Us
Phone 133 166 | Email firesafety.au@tycoint.com | Website www.wormald.com.au

* * * Communication Result Report (Jan. 13. 2012 12:14PM) * * *

1)
2)

Date/Time: Jan. 13. 2012 12:11PM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
0089	Memory TX	916095376183	P. 4	OK	

Reason for error
E. 1) Hang up or line fail
E. 2) Busy
E. 3) No answer
E. 4) No facsimile connection
E. 5) Exceeded max. E-mail size

FMC INNOVATION CENTER
801 PRINCETONSOUTH CORPORATE CENTER
EWING, NJ 08628
Fax (609) 963-6243

FAX MESSAGE

DATE: 1-13-12

TO: Colleen

FROM: _____

SENDER'S PHONE # 609-963-_____

MESSAGE: _____

Total # of pages including cover: _____

Call the sender's phone number if there's any difficulty.

FMC INNOVATION CENTER
801 PRINCETONSOUTH CORPORATE CENTER
EWING, NJ 08628
Fax (609) 963-6243

FAX MESSAGE

DATE: 1-13-12

TO: Colleen

FROM: _____

SENDER'S PHONE # 609-963- _____

MESSAGE: _____

_____

_____

_____

_____

_____

_____

Total # of pages including cover: _____

Call the sender's phone number if there's any difficulty.

Chlorpyrifos Technical

MSDS Revision Date (dd/mm/yyyy): 09/07/2009

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **Chlorpyrifos Technical**

Product Code(s) : None reported.

Product Use : Active Ingredient in Insecticides.

Chemical Family : Organophosphate

Supplier's name and address:

Cheminova Inc.
PO Box 110566
One Park Drive
Research Triangle Park, NC, USA
27709

Manufacturer's name and address:
Refer to Supplier

Information Telephone No. : 919-474-6600 (8:00 AM - 5:00 PM, EST, Monday-Friday)

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).
For Medical Emergencies: (800) 303-6850

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
Chlorpyrifos	2921-88-2	60.00 - 100.00	0.1 mg/m³ (inhalable fraction and vapor)	N/Av	N/Av	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Amber to light brown solid. Slightly aromatic odour.

Warning! Dangerous exothermic decomposition may occur at temperatures greater than 320°F / 160°C. May be fatal if inhaled or swallowed. Harmful if absorbed through the skin. May cause eye and skin irritation. Contains material which can cause nervous system damage. May cause long-term adverse effects in the environment. This material is toxic to birds, insects and aquatic invertebrates.

POTENTIAL HEALTH EFFECTS

Target organs : Eyes, skin, respiratory system, digestive system, central nervous system.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

Signs and symptoms of short-term (acute) exposure

Inhalation : May be fatal if inhaled. This material can cause organophosphorous poisoning. Symptoms of poisoning may include headache, nausea, vomiting, blurred vision, tightness in chest, drooling and frothing of mouth and nose, convulsions, coma and death.

Skin : Direct contact causes skin irritation. Readily absorbed through the skin. Causes symptoms similar to those listed for Inhalation.

Eyes : Direct contact causes eye irritation. Readily absorbed through eye surfaces. Causes symptoms similar to those listed for Inhalation.

Ingestion : May be fatal if ingested. Causes symptoms similar to those listed for Inhalation.

Effects of long-term (chronic) exposure
: Prolonged or repeated overexposure may cause behavioral changes. Prolonged or repeated overexposure could cause adverse liver effects.

Conditions aggravated by overexposure
: Pre-existing skin, eye, respiratory and central nervous system disorders.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects
: This material is highly toxic to fish and wildlife. See ECOLOGICAL INFORMATION, Section 12.

Cholinesterase inhibitor. See TOXICOLOGICAL INFORMATION, Section 11.

MATERIAL SAFETY DATA SHEET

BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

MSDS Ref. No.: 82657-04-3
Date Approved: 09/24/2004
Revision No.: 11

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the EC directive, 2001/58/EC and other regulatory requirements. The information contained herein is for the concentrate as packaged, unless otherwise noted.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE
PRODUCT CODE:	655; 668
ACTIVE INGREDIENT(S):	Bifenthrin
CHEMICAL FAMILY:	Pyrethroid Pesticide
MOLECULAR FORMULA:	$C_{23}H_{22}ClF_3O_2$
SYNONYMS:	FMC 54800; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; IUPAC: 2-methylbiphenyl-3-ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate

ALTERNATE PRODUCT NAME(S): Biflex®; Bistar™; Brigade®; Capture®; Talstar®

MANUFACTURER

FMC CORPORATION
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103
(215) 299 6000 (General Information)

EMERGENCY TELEPHONE NUMBERS

(800) 424-9300 (CHEMTREC - U.S.A. & Canada)
(202) 483-7616 (CHEMTREC - All Other Countries)
(800) 331-3148 (FMC - U.S.A. & Canada)
(716) 735-3765 (Reverse charges - FMC)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Viscous liquid, crystalline solid or waxy solid with a very faint, slightly sweet odor.
- Slightly combustible. May support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Highly toxic to fish and aquatic organisms. Keep out of drains and water courses.
- Moderately toxic if swallowed.

BASF
The Chemical Company

Safety data sheet

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 Version: 4.0
Date / Revised: 23.07.2010
Product: Pendimethalin technical (57508/SDS_GEN_EU/EN)
Date of print 19.11.2010

1. Identification of the substance/mixture and of the company/undertaking

Pendimethalin technical

Chemical name: pendimethalin

Company:
BASF Agrochemical Products B.V. Puerto-Rico Branch
100 Campus Drive
Florham Park, NJ 07932, USA
Contact address:
BASF SE
67056 Ludwigshafen
GERMANY
Telephone: +49 621 60-0
E-mail address: global.info@basf.com

Emergency information:
International emergency number:
Telephone: +49 180 2273-112

2. Hazards identification

According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Label elements and precautionary statement:

Pictogram:

Signal Word:
Warning

Hazard Statement:
May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

MATERIAL SAFETY DATA SHEET

CLOMAZONE TECHNICAL HERBICIDE

MSDS Ref. No.: 81777-89-1
Date Approved: 10/25/2005
Revision No.: 11

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the EC directive, 2001/58/EC and other regulatory requirements. The information contained herein is for the concentrate as packaged, unless otherwise noted.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	CLOMAZONE TECHNICAL HERBICIDE
PRODUCT CODE:	616; 5096
ACTIVE INGREDIENT(S):	Clomazone
CHEMICAL FAMILY:	Herbicide
MOLECULAR FORMULA:	$C_{12}H_{14}ClNO_2$(clomazone)
SYNONYMS:	FMC 57020; 2-(2-chlorophenyl)methyl-4,4-dimethyl-3-isoxazolidinone; IUPAC: 2-(2-chlorobenzyl)-4,4-dimethyl-1,2-oxazolidin-3-one; 2-(2-chlorobenzyl)-4,4-dimethylisoxazolidin-3-one

ALTERNATE PRODUCT NAME(S): Command®; Gamit®

MANUFACTURER

FMC CORPORATION
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103
(215) 299 6000 (General Information)

EMERGENCY TELEPHONE NUMBERS

(800) 331-3148 (FMC - U.S.A. & Canada)
(716) 735-3765 (FMC - Reverse charges)

For leak, fire, spill, or accident emergencies, call:
(800) 424-9300 (CHEMTREC - U.S.A. & Canada)
(703) 527-3887 (CHEMTREC - All Other Countries)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

- Clear, colorless to light brown, viscous liquid with a light, fatty acid odor.
- Slightly combustible. May support combustion at elevated temperatures.
- Thermal decomposition and burning may form toxic by-products.
- For large exposures or fire, wear personal protective equipment.
- Slightly to highly toxic to fish and aquatic organisms. Keep out of drains and water courses.

ExxonMobil

Product Name: AROMATIC 200 FLUID
Revision Date: 15May2007

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT
Product Name: AROMATIC 200 FLUID
Product Description: Aromatic Hydrocarbon
Product Code:
Intended Use: Solvent

COMPANY IDENTIFICATION
Supplier: EXXONMOBIL CHEMICAL COMPANY
P.O. BOX 3272
HOUSTON, TX. 77253-3272 USA

24 Hour Health Emergency	(800) 726-2015
Transportation Emergency Phone	(800) 424-9300 or (703) 527-3887 CHEMTREC
Product Technical Information	(281) 870-6000/Health & Medical (281) 870-6884
Supplier General Contact	(281) 870-6000

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)

Name	CAS#	Concentration*
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	64742-94-5	100%

Hazardous Constituent(s) Contained in Complex Substance(s)

Name	CAS#	Concentration*
1-METHYLNAPHTHALENE	90-12-0	< 12.5%
2-METHYLNAPHTHALENE	91-57-6	< 26.0%
NAPHTHALENE	91-20-3	< 14.0%

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION 3 HAZARDS IDENTIFICATION

This material is considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL PHYSICAL / CHEMICAL EFFECTS
Material can accumulate static charges which may cause an incendiary electrical discharge.

POTENTIAL HEALTH EFFECTS
Repeated exposure may cause skin dryness or cracking. Possible human cancer hazard. If swallowed, may be aspirated and cause lung damage. May be irritating to the eyes, nose, throat, and lungs.

ENVIRONMENTAL HAZARDS
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

NFPA Hazard ID:	Health: 1	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health: 1*	Flammability: 1	Reactivity: 0

Bert Steinmann, Mayor

William G. Erney Jr.
Construction / Fire Official

TOWNSHIP OF EWING
DIVISION OF FIRE PREVENTION

MUNICIPAL COMPLEX 2 JAKE GARZA DRIVE, EWING, NJ 08628 (609) 883-2900 Ext 7676
FAX (609) 406-1384

FIRE INVESTIGATION REPORT

DATE: **Friday January 13, 2012**
LOCATION: **701 Charles Ewing Blvd.**
BLOCK: **225.01** LOT: **1.03**
TIME OF ALARM: **02:56 Hrs.**
OWNER OF PROPERTY: **FMC Corporation**
801 Charles Ewing Blvd.
Ewing, NJ 08628

INVESTIGATION: **Station 32 was dispatched for a water flow alarm. The above building is one of two buildings that are a mixed use of offices and research labs constructed of concrete block and steel. Upon arriving on scene they were met by (3) Ewing Police Officers that stated that there was a haze in the building and foam in the area of the Kilo Lab. Chief 32 then upgraded the alarm to an all call and being chemicals could possibility be involved he also requested Trenton Fire Department's Hazmat Unit. Also (1) security guard from FMC was on scene. It had been determined by Trenton's Hazmat Team that the (3) police officers and FMC security guard must be decontaminated and taken to the hospital for safety measures. The Hazmat team also took air quality samples that turned up negative. The scene was secured until FMC's environmental clean up company arrives and accesses the damage and see what chemicals had been involved. After the environmental company arrived, they started to pump out the holding tanks of contaminated water to their tank trucks. One of the FMC**

personnel wanted to have some employees to go into the building to turn off some machinery in other labs through out other areas of the building.

INVESTIGATION TEAM:

Bill Erney ---------- Ewing Fire Marshal
Sam Hedrick (Writer) ---------- Ewing Fire Investigator

ADDITIONAL INFORMATION:

FMC Personnel On Scene:

Robert Kasubinski
Manager Plant Engineer
609-963-6207 (Office)
(Cell)

Ryan Hinkle
Manager Health, Safety and Environmental
609-963-6206 (Office)
(Cell)
(Home)

Lawrence Scott Baker
Maintenance Coordinator
609-963-6202 (Office)
(Cell)

Joe Haraz
Electrical Technician
(Cell)
(Home)

Township Officials On Scene

Bert Steinmann ---------- Mayor
Jim McManimon ---------- Business Administrator
Lt. Ron Lunetta ---------- Ewing Police Department

Trenton Fire Department Hazmat Unit

Gus Tackas

Personnel Transported To Hospital
Sgt. Maglione ---------- Ewing Police Dept.
Ptl. Knowacky ---------- Ewing Police Dept.
Ptl. Lardieri ---------- Ewing Police Dept.
Hugh Bennett ----------FMC Security

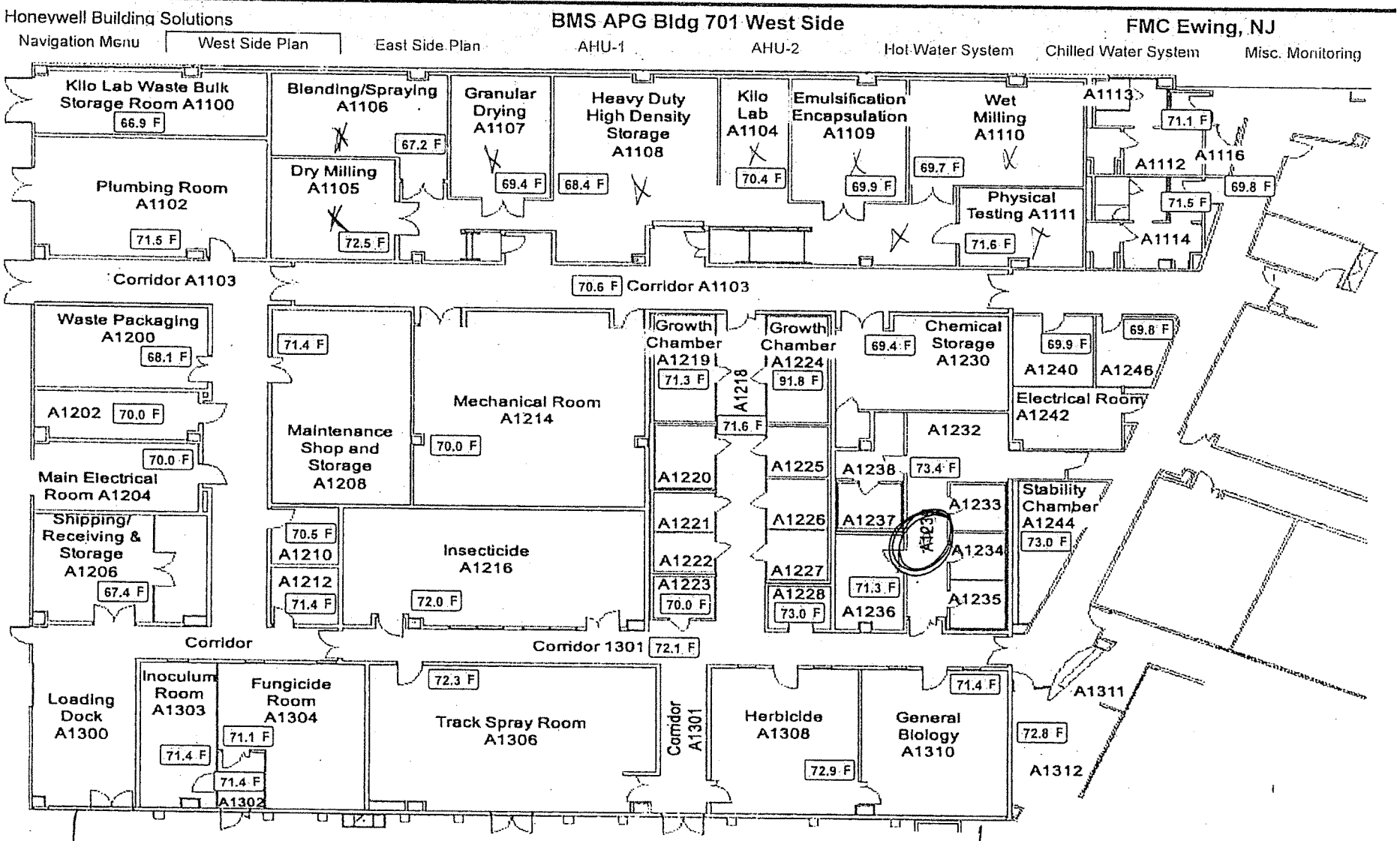
Clean Harbors Environmental Services
2858 Route 322
Bridgeport, New Jersey 08014
Robert C. McDonald – Foreman
856-467-3102 (Office)
[redacted] (Cell)

Majek Fire Protection, Inc.
1707 Imperial Way
Thorofare, New Jersey 08086
856-845-4800

FINDINGS: Bob Kasubinski called on Monday 1/17/12 and informed us that the clean up crew had gained access to the effected area and was in the process of cleaning up that area. He stated that they are sure the cause was a 55- gallon drum that contained Clomazone, which is an herbicide. He stated that some how the drum was pressurized and the lid blew off traveling through the sheet rock ceiling and broke one of the fire suppression system's line causing the foam activation and water flow. A full report from FMC will be supplied on the incident.

CONCLUSION: The origin and cause was in the dry milling room where the over pressurization of the drum caused the drum and lid to explode causing the damage.

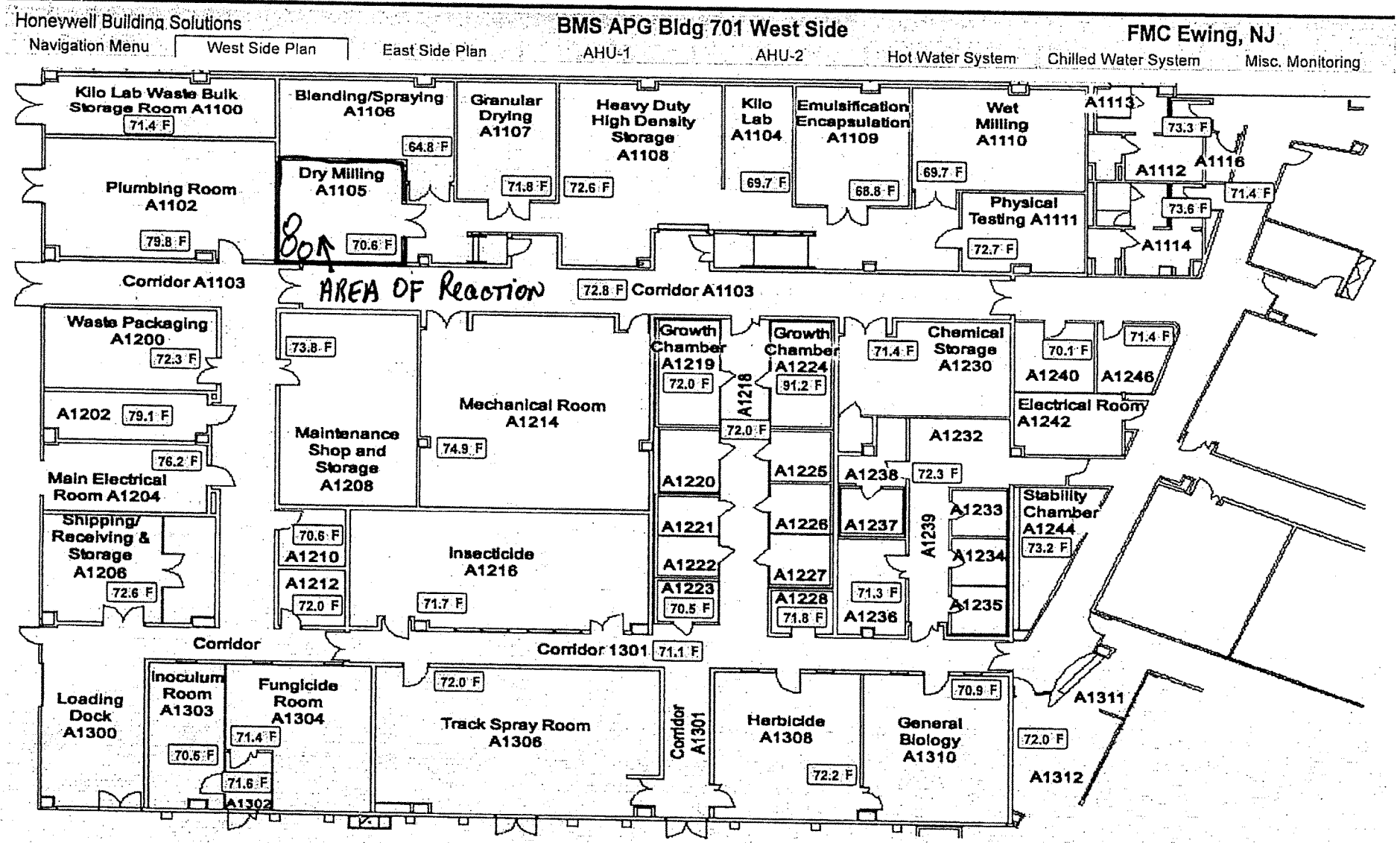
Honeywell



10-Feb-10 7:55:03 Misc_Monitoring BioEF7VFD_DriveFail ALARM U 00 Drive Fail Status Fail
Date: 11-Feb-10 Time: 15:12:29 Alarm: Alarm Server: princtn-bms01 Station: Logon: FMC\KasubinskiR

Green House

Honeywell



Date: 16-Nov-10 Time: 10:40:18 Alarm: Alarm Server: princtn-bms01 Station: Logon: FMC\KasubinskiR

Bert Steinmann, Mayor

William G. Erney Jr
Construction Official / Zoning Officer

EWING TOWNSHIP CODE ENFORCEMENT

DIVISIONS OF CONSTRUCTION – FIRE PREVENTION – HOUSING – PLANNING & ZONING
MUNICIPAL COMPLEX 2 JAKE GARZIO DRIVE, EWING, NJ 08628 (609) 883-2900 Ext 7676 FAX (609) 406-1384

January 13, 2012

FMC Corporation
C/O Robert Kasubinski
801 Princeton South Corporate Center
801 Charles Ewing Blvd.
Ewing, NJ 08628

Dear Robert,

In following up of a re-inspection of the incident that happened on January 13, 2012 our Building Inspector Sam Hedrick and myself reviewed the building areas affected by the incident.

Other than water and foam damage which have been mostly abated, the main area "Kilo Lab" (A1104) and the following rooms ; Dry milling (A1105), Blending/Spraying (A1106), Granular Drying (A1107), Emulsification Encapsulation (A1109), Wet Milling (A1110), Physical Testing (A1111) have not been abated at this time. Subsequently these rooms are not to be occupied until abated and inspected by our Construction Staff.

We will need to review damaged areas prior to any repairs. These areas that are not going to occupied will need to be monitored by 24 hour fire watch on an hourly basis and logs kept of same.

The Fire Watch will protect the above areas as well as corridor (A1103) until the Fire Protection system has been reactivated and our staff has inspected same.

Should you have any questions over the weekend during your cleanup process, please contact me at 609-209-3574 or upon my absence you can call Sam Hedrick at 609-209-3242.

Thank you for your cooperation during this incident and we look forward to working with you during the abatement process.

Respectfully,

William G. Erney Jr.
Construction/Zoning Official

EWING POLICE DEPARTMENT

2 JAKE GARZIO DRIVE, EWING, NJ 08628
WWW.EWINGPOLICE.COM

OPERATIONS REPORT

CLASSIFICATION	NATURE OF INCIDENT	DATE	TIME	INCIDENT NUMBER
	HAZMAT	Jan 13, 2012	02:53	I-2012-000932

(LAST, FIRST, MIDDLE)	VICTIM - ☑ COMPLAINT - ☐ ACCUSED - ☐	DOB
BENNETT , HUGH , N		-

ADDRESS	PHONE
217 EUCLID AVE., TRENTON, NJ 08609-1423	

LOCATION OF INCIDENT
FMC CORPORATION - 701 CHARLES EWING BOULEVARD/LOWER FERRY ROAD, EWING, NJ 08628

REPORTED BY	RADIO	PHONE	VIEW	OTHER
ADT	☐	☑	☐	☐

ADDRESS	PHONE
, , NJ	(877) 535-0563

WITNESS - OTHER - AGENCY	DOB
,	

ADDRESS	PHONE
, ,	

VEH. STATUS	YEAR	MAKE	BODY TYPE	COLOR	LICENSE NUMBER & STATE	VIN.

NARRATIVE

[VICTIM] MAGLIONE, JOSEPH SGT. 2 JAKE GARZIO DR EWING NJ 08628
[VICTIM] KOWNACKY, F. PO #150 2 JAKE GARZIO DR EWING NJ 08628
[VICTIM] LARDIERI, WILLIAM P.O 2 JAKE GARZIO DR EWING NJ 08628
ON 01/13/12 AT 0253 HOURS MYSELF (PO LARDIERI #178), PO KOWNACKY #150, AND SGT. MAGLIONE #137 WERE DETAILED TO 701 CHARLES EWING BLVD EWING NJ, 08628 (FMC CORPORATION) FOR A FIRE ALARM.

UPON MY ARRIVAL PO KOWNACKY #150, SGT. MAGLIONE #137, AND A SECURITY GUARD (HUGH N BENNETT) WERE IN THE BUILDING LOOKING FOR THE CAUSE OF THE ALARM. I ENTERED THE BUILDING BEHIND THEM AND STARTED TO LOOK FOR THEM AND THE CAUSE OF THE ALARM. WHEN I ENTERED THE SECOND DOOR TO A HALLWAY SGT. MAGLIONE #137 CAME INTO THE SAME HALLWAY THROUGH ANOTHER DOOR AND ADVISED ME THAT THERE WAS SOME KIND OF CHEMICAL SMOKE IN THE BUILDING AND WE SHOULD LEAVE. MYSELF, SGT. MAGLIONE #137, PO KOWNACKY #150, AND THE SECURITY GUARD EXITED THE BUILDING IMMEDIATELY. ONCE OUTSIDE WE MET WITH THE PENNINGTON ROAD FIRE CHIEF AND ADVISED HIM OF THE SITUATION. THE PENNINGTON ROAD FIRE CHIEF CALLED TRENTON HAZMAT AND STARTED TRYING TO GET IN CONTACT WITH SOMEONE FROM FMC CORPORATION WHO COULD ADVISE HIM OF WHAT TYPE OF CHEMICAL WAS LEAKING.

MYSELF, SGT. MAGLIONE #137, AND PO KOWNACKY #150 WERE ADVISED BY THE PENNINGTON ROAD FIRE CHIEF THAT WE WERE CONSIDERED CONTAMINATED BECAUSE WE ENTERED THE BUILDING AND THAT WE NEEDED TO STAY ON SCENE UNTIL THERE WAS A DETERMINATION OF HOW HAZARDOUS, IF AT ALL, THE CHEMICAL WAS.

IT WAS EVENTUALLY DETERMINED THAT WE WERE EXPOSED TO A TOXIC CHEMICAL. WE HAD TO GO THROUGH THE DECONTAMINATION PROCESS AND WERE TAKEN TO CAPITAL HEALTH MEDICAL CENTER HOPEWELL. THERE IS NOTHING FURTHER TO REPORT AT THIS TIME.

Officer Name /Rank	ID NUMBER	HOURS	DATE	REVIEWED BY	COMPLETED
PO. WILLIAM LARDIERI	178	04:19	Jan 13, 2012	SGT. JOSEPH MAGLIONE	
SIGNATURE					

Material Safety Data Sheet
CLOMAZONE TECHNICAL HERBICIDE

SDS # : 000616-A
Revision Date: 2012-01-12
Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	CLOMAZONE TECHNICAL HERBICIDE
Active Ingredient(s)	Clomazone
Chemical Family	Isoxazolidinones
Synonyms	FMC 57020; 2-(2-chlorobenzyl)-4,4-dimethyl-1,2-oxazolidin-3-one; 2-[(2-chlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone
Recommended use	Herbicide.

Manufacturer
FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103
General Information:
Phone: (215) 299-6000
E-Mail: msdsinfo@fmc.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
+1 800.424.9300 (CHEMTREC - U.S.A.)
+1 703.527.3887 (CHEMTREC - Collect - All Other Countries)
Medical Emergencies:
(800) 331-3148 (U.S.A. & Canada)
+1 (651) 632-6793 (All Other Countries - Collect)

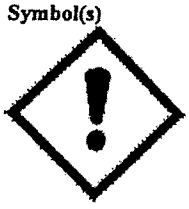
2. Hazards identification

Classification of the substance or mixture

Acute oral toxicity	Category 4
Acute aquatic toxicity	Category 2

Labeling

Symbol(s)



Signal Word **Warning**

Hazard statements
H302 - Harmful if swallowed
H401 - Toxic to aquatic life

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/ container to an approved incineration plant

Other hazards which do not result in classification

None known.

3. Composition/information on ingredients

Hazardous

Chemical Name	Weight %	ENCS (Japan)	ISHL No.	CAS-No
Clomazone	>88			81777-89-1

4. First aid measures

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. Call a poison control center or doctor for treatment advice.

Skin contact

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.

Inhalation

Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion

Call a poison control center or doctor immediately for treatment advice. Have 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. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Flammable properties

Not flammable.

Suitable extinguishing media

Carbon dioxide (CO_2), Water spray, Foam, Dry chemical.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions

Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.

Environmental precautions

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

Methods for containment

Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.
Other	For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

7. Handling and storage

Handling	Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.
Storage	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

8. Exposure controls/personal protection

Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Occupational exposure controls

Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal Protective Equipment

General Information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory protection	For dust, splash, mist or spray exposures wear a filtering mask.
Eye/face protection	For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield
Skin and body protection	Wear long-sleeved shirt, long pants, socks, shoes, and gloves.
Hand protection	Protective gloves
Hygiene measures	Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

9. Physical and chemical properties

Appearance	Clear, Colorless to light-brown, viscous liquid
Odor	Slight odor of fatty acid
Physical state	liquid
pH	No data available
Flash Point	157 °C / 315 °F Seta closed cup
Autoignition Temperature	No data available
Boiling Point/Range	275.4 °C
Melting Point/Range	25 - 34 °C (depending upon purity of active ingredient)
Flammability Limits in Air	**upper** No data available **lower** No data available
Explosion limits	
Explosive properties	No information available.
Oxidizing properties	No information available.
Evaporation rate	No data available
Vapor pressure	0.000144 mm Hg at 25°C

Vapor density	No data available
Specific Gravity	1.192 @ 20 °C
Density	9.91 lb/gal
Solubility	No information available.
Water solubility	1100 ppm
Partition coefficient:	No data available
Viscosity, dynamic VALUE	No information available.

10. Stability and reactivity

Stability	Stable.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Carbon oxides, nitrogen oxides (NOx), Chlorine, Hydrogen chloride.

11. Toxicological information

Acute Toxicity
Product Information

Skin contact	Substance may cause slight skin irritation (rabbit).
Eye contact	Non-irritating (rabbit).
Ingestion	Large dosages of clomazone ingested by laboratory animals produced signs of toxicity including ataxia, decreased activity, oral discharge, lacrimation, bloody tears, and nasal discharge.
LD50 Dermal	> 2,000 mg/kg (rabbit)
LD50 Oral	1,369 mg/kg (rat)
LC50 Inhalation:	4.85 mg/L 4 hr (rat)

Chronic Toxicity

Chronic Toxicity	Effects are expected to be similar to those that are seen with acute toxicity.
Target Organ Effects	Liver enlargement is often noted in laboratory animals that have ingested large doses of during their life span.
Carcinogenicity	Not carcinogenic.
Mutagenicity	Not genotoxic
Reproductive toxicity	No toxicity to reproduction
Developmental Toxicity	Not teratogenic in animal studies.

12. Ecological information

12.1

Ecotoxicity effects

The environmental impact of this product has not been fully investigated

Clomazone (81777-89-1)

Active Ingredient(s)	Duration	Species	Value	Units
Clomazone	120 h EC50	Algae	3.7	mg/L

	48 h LC50	Daphnia	>9.8	mg/L
	96 h LC50	Fish	15.5	mg/L

Environmental Fate

Clomazone (81777-89-1)

Active Ingredient(s)	Type of Test	Result
Clomazone	log Pow	2.5
	Half-life in soil	~30 days
	Bioconcentration factor (BCF)	30
	Mobility in soil	Not expected to reach groundwater
	Stability in water	Stable to hydrolysis over a wide range of pH values.

13. Disposal considerations

Waste disposal methods — Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

Contaminated packaging — Dispose of in accordance with local regulations

14. Transport information

DOT — This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.

TDG — Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

- **Proper shipping name**: Environmentally hazardous substance, liquid, n.o. s.
- **Hazard Class**: 9
- **UN/ID No**: UN3082
- **Packing group**: III
- **Marine pollutant**: Clomazone.
- **Description**: Environmentally hazardous substance, liquid, n.o.s. (Clomazone), UN3082, Marine Pollutant

IMDG/IMO

- **UN/ID No**: UN3082
- **Hazard Class**: 9
- **Proper shipping name**: Environmentally hazardous substance, liquid, n.o. s.
- **Packing group**: III
- **Marine pollutant**: Clomazone
- **EmS No.**: F-A, S-F
- **Description**: Environmentally hazardous substance, liquid, n.o.s. (Clomazone), UN3082, Marine Pollutant

ICAO/IATA

- **UN/ID No**: UN3082
- **Hazard Class**: 9
- **Proper shipping name**: Environmentally hazardous substance, liquid, n.o. s.

Packing group	III
Description	Environmentally hazardous substance, liquid, n.o.s. (Clomazone), UN3082
Limited quantity	914 / 450 L

15. Regulatory information

International Inventories

Chemical Name	TSCA Inventory (United States of America)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	IECSC (China)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)	NZIoC (New Zealand)
Clomazone 81777-89-1	-	-	-	-	X	X	-	-	X

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

Japan

16. Other information

Revision Date:	2012-01-12
Reason for revision:	(M)SDS sections updated.

Disclaimer
The information provided on this MSDS 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

Prepared By

FMC Corporation
FMC Logo - Trademark of FMC Corporation

End of Material Safety Data Sheet

Clomazone

sc-234404

Material Safety Data Sheet

Hazard Alert Code Key: EXTREME

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
Clomazone

STATEMENT OF HAZARDOUS NATURE
CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

NFPA

SUPPLIER
Company: Santa Cruz Biotechnology, Inc.
Address:
2145 Delaware Ave
Santa Cruz, CA 95060
Telephone: 800.457.3801 or 831.457.3800
Emergency Tel: CHEMWATCH: From within the US and Canada:
877-715-9305
Emergency Tel: From outside the US and Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

PRODUCT USE
Selective herbicide for control of broad-leaved and grass weeds in soya beans, peas, maize, oilseed rape, sugar cane, cassava, pumpkins and tobacco. Applied pre-emergence and pre-plant incorporated.

SYNONYMS
C12-H14-Cl-N-O2, C12-H14-Cl-N-O2, "3-isoxazolidinone, 2-[(2-chlorophenyl)methyl]-4, 4-dimethyl-", "3-isoxazolidinone, 2-[(2-chlorophenyl)methyl]-4, 4-dimethyl-", "2-(2-chlorobenzyl)-4, 4-dimethyl-1, 2-oxazolidin-3-one", "2-(2-chlorobenzyl)-4, 4-dimethyl-1, 2-oxazolidin-3-one", "2-2-(chlorobenzyl)-4, 4-dimethylisoxazolidin-3-one", "2-2-(chlorobenzyl)-4, 4-dimethylisoxazolidin-3-one", "2-[(2-chlorophenyl)methyl]-4, 4-dimethyl-3-isoxazolidinone", "2-[(2-chlorophenyl)methyl]-4, 4-dimethyl-3-isoxazolidinone", dimethazone, "carfentrazone ethyl", Command, FMC-57020, Gamit, Magister, "azole pesticide/ herbicide"

Section 2 - HAZARDS IDENTIFICATION

CANADIAN WHMIS SYMBOLS

Clomazone

sc-234404

Material Safety Data Sheet

Hazard Alert Code Key: EXTREME

EMERGENCY OVERVIEW

RISK

Harmful by inhalation and if swallowed.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

■ Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.
■ Aromatase inhibitors (including triazoles and azoles) produce several side effects including mood swing, depression, weight gain, hot flushes, vaginal dryness, bloating, early onset of menopause. Long-term use may result in bone weakness, increased risk of blood clots, gastrointestinal disturbance,and sweats.
Aromatase inhibitors lower the level of oestrogen in post-menopausal women who have hormone-receptor-positive breast cancers. Prior to menopause oestrogen is mostly produced in the ovaries. Post-menopausal women produce oestrogen from another hormone, androgen. Aromatase inhibitors prevent the enzyme, aromatase from catalysing this reaction. Breast cancer cell growth in post-menopausal women is stimulated by oestrogen.

EYE

■ There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.
■ Because of their alkaline nature eye contact with oxazolidines may produces moderate to severe irritation depending on the duration of contact.

SKIN

■ There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterized by redness, swelling and blistering.
■ Open cuts, abraded or irritated skin should not be exposed to this material.
■ Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
■ Oxazolidines generally do not produce systemic harmful following skin contact but, because of their alkaline nature, may produce moderate to severe irritation. Dermal reactions may include necrosis, sloughing and scab formation.

INHALED

■ Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.
■ Inhalation hazard is increased at higher temperatures.
■ The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

CHRONIC HEALTH EFFECTS

■ Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.
Exposure to the material may cause concerns for human fertility, on the basis that similar materials provide some evidence of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of other toxic effects.

.

Based on experience with animal studies, there is a possibility that exposure to the material may result in toxic effects to the development of the fetus, at levels which do not cause significant toxic effects to the mother.
Imidazole is structurally related to histamine and has been used as an antagonist to counteract the effects of excess histamine found in certain induced physiological conditions (it therefore acts as an antihistamine).
Imidazoles have been reported to disrupt male fertility through disruption of testicular function.
2-Methylimidazole decreased luteinising hormone secretion and tissue interstitial fluid testosterone concentration two hours after injection into Sprague Dawley rats.
Imidazoles bind to cytochrome P450 haeme, resulting in inhibition of catalysis. However, 2-substituted imidazoles are considered to be poor inhibitors. Imidazole is probably an inducer of cytochrome P4502E1. In general, inducers of this isozyme stabilise the enzyme by preventing phosporylation of a serine which leads to haeme loss.
Several drugs containing an imidazole moiety were retained and bound in connective tissue when administered to laboratory animals. The bound material was primarily recovered from elastin (70%) and the collagen. It is postulated that reaction with aldehydes gives an aldol condensation product.
Azole fungicides show a broad antifungal activity and are used either to prevent fungal infections or to cure an infection. Therefore, they

Clomazone

sc-234404

Material Safety Data Sheet

Hazard Alert Code Key: EXTREME

are important tools in integrated agricultural production. According to their chemical structure, azole compounds are classified into triazoles and imidazoles; however, their antifungal activity is due to the same molecular mechanism. The cell membrane assembly of fungi and yeast is disturbed by blocking the synthesis of the essential membrane component ergosterol. This fundamental biochemical mechanism is the basis for the use of azole fungicides in agriculture and in human and veterinary antimycotic therapies. The enzyme involved is sterol 14[alpha]-demethylase, which is found in several phyla. In mammals, it converts lanosterol into the meiosis-activating sterols (MAS) which regulate or modify cell division. These precursors of cholesterol have been discovered to moderate the development of male and female germ (sexual) cells. Several metabolites of lanosterol have been regarded only as precursors of cholesterol without any biological function in animals. This view dramatically changed recently with the observation that FF-MAS isolated from human follicle fluid and T-MAS isolated from bull testis as well as the MAS-412 and MAS-414 induced resumption of meiosis in cultivated mouse oocytes (Byskov et al. 1995).

Aromatase is another target enzyme of azole compounds. In steroidogenesis, it converts androgens into the corresponding oestrogens. The importance of androgens and oestrogens for the development of reproductive organs, for fertility, and in certain sex steroid-dependent diseases is well known. Therefore, azole compounds can be directed against aromatase to treat oestrogen-responsive diseases. Based on the inhibitory activity of azoles on key enzymes involved in sex steroid hormone synthesis, it is likely that effects on fertility, sexual behavior, and reproductive organ development will occur depending on dose level and duration of treatment of laboratory animals. Several azole compounds were shown to inhibit the aromatase and to disturb the balance of androgens and estrogens in vivo. In fact, the clinical use of azole compounds in estrogen-dependent diseases is based on this effect. Additionally, azole antifungals developed to inhibit the sterol 14[alpha]-demethylase of fungi and yeast in agriculture and medicine are also inhibiting aromatase. Therefore, these antifungals may unintentionally disturb the balance of androgens and estrogens. Until now, it is not clear whether this effect is compensated by an increased expression of aromatase or by other unknown mechanisms.

The broad use of biologically active compounds in human therapy as well as in nonhuman applications may involve some risks, as exemplified by emerging antibiotic resistance. In agriculture, fungi and yeast are well known to develop resistance to azoles, and some molecular mechanisms of resistance development have been described. The significance of the agricultural azole resistance for human clinical antimycotic therapies has been discussed in Europe, but is not clarified yet. The actual target enzyme of azole antifungals, the fungal sterol 14[alpha]-demethylase, is expressed in many species including humans, and it is highly conserved through evolution. Hence, it seems reasonable to assume that most of the azole antifungals used in agriculture and medicine as well as azoles used in management of breast cancer also act as inhibitors on human sterol 14[alpha]-demethylase to an unknown extent. The toxicologic profiles of individual azole fungicides provide evidence for endocrine effects. In fact, many of these fungicides have effects on prostate, testis, uterus, and ovaries as well as on fertility, development, and sexual behavior. The current database does not allow us to establish causal relationships of these effects with inhibition of sterol 14[alpha]-demethylase and/or aromatase, but the overall view strongly suggests a connection with disturbed steroidogenesis.

Zarn et al; Environmental Health Perspectives - 3/1/2003

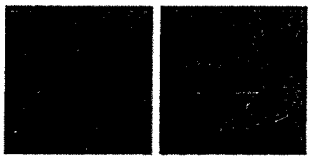
Some azoles have been associated with prolongation of the QT interval on the electrocardiogram.

In animal studies, clomazone did not cause reproductive toxicity, teratogenicity or carcinogenicity. Liver enlargement and elevated cholesterol levels are often seen in laboratory animals following ingestion of large doses of clomazone over the course of their life. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosomal aberrations.

HAZARD RATINGS

		Min	Max
Flammability:	1		
Toxicity:	2		
Body Contact:	2		
Reactivity:	1		
Chronic:	2		

Min/Nil=0
Low=1
Moderate=2
High=3
Extreme=4



NAME	CAS RN	%
clomazone	81777-89-1	>98

Clomazone

sc-234404

Material Safety Data Sheet

Hazard Alert Code Key: EXTREME | HIGH | MODERATE

SECTION 4 FIRST AID MEASURES

SWALLOWED

■

- IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.
- Where Medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:
- For advice, contact a Poisons Information Center or a doctor.
- Urgent hospital treatment is likely to be needed.
- If conscious, give water to drink.
- INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the MSDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the MSDS.

EYE

■ If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- If pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

■ If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED

■

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

NOTES TO PHYSICIAN

■ for poisons (where specific treatment regime is absent):

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary edema .
- Monitor and treat, where necessary, for shock.
- Anticipate seizures .
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

Hazard Alert Code Key: EXTREME

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary edema.
- Hypotension with signs of hypovolemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.
EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994.
Treat symptomatically.

Vapor Pressure (mmHg):	0.143
Upper Explosive Limit (%):	Not available
Specific Gravity (water=1):	1.192
Lower Explosive Limit (%):	Not available

EXTINGUISHING MEDIA

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog - Large fires only.

FIRE FIGHTING

- Alert Emergency Responders and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- Avoid spraying water onto liquid pools.
- Do not approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.

GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS

- Combustible.
- Slight fire hazard when exposed to heat or flame.
- Heating may cause expansion or decomposition leading to violent rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO).
- May emit acrid smoke.
- Mists containing combustible materials may be explosive.

Combustion products include: carbon dioxide (CO_2), hydrogen chloride, phosgene, nitrogen oxides (NOx), other pyrolysis products typical of burning organic material.

FIRE INCOMPATIBILITY

- Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids,chlorine bleaches, pool chlorine etc. as ignition may result.

PERSONAL PROTECTION

Glasses:
Safety Glasses.
Chemical goggles.

Hazard Alert Code Key: EXTREME

Gloves:
Respirator:
Type A-P Filter of sufficient capacity

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

■ Environmental hazard - contain spillage.

- Clean up all spills immediately.
- Avoid breathing vapors and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.
- Wipe up.
- Place in a suitable labeled container for waste disposal.

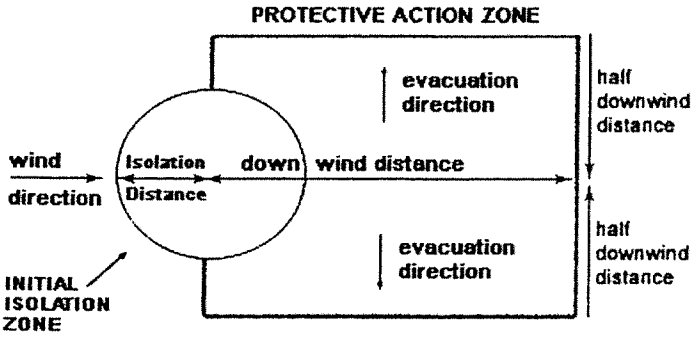
MAJOR SPILLS

■ Environmental hazard - contain spillage.

Moderate hazard.

- Clear area of personnel and move upwind.
- Alert Emergency Responders and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- No smoking, naked lights or ignition sources. Increase ventilation.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labeled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labeled drums for disposal.
- Wash area and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise emergency services.

PROTECTIVE ACTIONS FOR SPILL



From IERG (Canada/Australia)
Isolation Distance -
Downwind Protection Distance 10 meters

FOOTNOTES

1 PROTECTIVE ACTION ZONE is defined as the area in which people are at risk of harmful exposure. This zone assumes that random changes in wind direction confines the vapour plume to an area within 30 degrees on either side of the predominant wind direction, resulting in a crosswind protective action distance equal to the downwind protective action distance.

2 PROTECTIVE ACTIONS should be initiated to the extent possible, beginning with those closest to the spill and working away from the site in the downwind direction. Within the protective action zone a level of vapour concentration may exist resulting in nearly all unprotected persons becoming incapacitated and unable to take protective action and/or incurring serious or irreversible health effects.

Hazard Alert Code Key: EXTREME

3 INITIAL ISOLATION ZONE is determined as an area, including upwind of the incident, within which a high probability of localised wind reversal may expose nearly all persons without appropriate protection to life-threatening concentrations of the material.
4 SMALL SPILLS involve a leaking package of 200 litres (55 US gallons) or less, such as a drum (jerrican or box with inner containers). Larger packages leaking less than 200 litres and compressed gas leaking from a small cylinder are also considered "small spills". LARGE SPILLS involve many small leaking packages or a leaking package of greater than 200 litres, such as a cargo tank, portable tank or a "one-tonne" compressed gas cylinder.
5 Guide 171 is taken from the US DOT emergency response guide book.
6 IERG information is derived from CANUTEC - Transport Canada.

ACUTE EXPOSURE GUIDELINE LEVELS (AEGL) (in ppm)

AEGL 1: The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic nonsensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure.
AEGL 2: The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting adverse health effects or an impaired ability to escape.
AEGL 3: The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening health effects or death.

SECTION 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- DO NOT allow clothing wet with material to stay in contact with skin
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

RECOMMENDED STORAGE METHODS

- Metal can or drum
- Packing as recommended by manufacturer.
- Check all containers are clearly labeled and free from leaks.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.

Clomazone

sc-234404

Material Safety Data Sheet

Hazard Alert Code Key: EXTREME

- Observe manufacturer's storing and handling recommendations.

SAFE STORAGE WITH OTHER CLASSIFIED CHEMICALS

+	X	+	X	X	+

X: Must not be stored together
O: May be stored together with specific preventions
+: May be stored together

EXPOSURE CONTROLS

The following materials had no OELs on our records

- clomazone: CAS:81777-89-1 CAS:89493-06-1

MATERIAL DATA

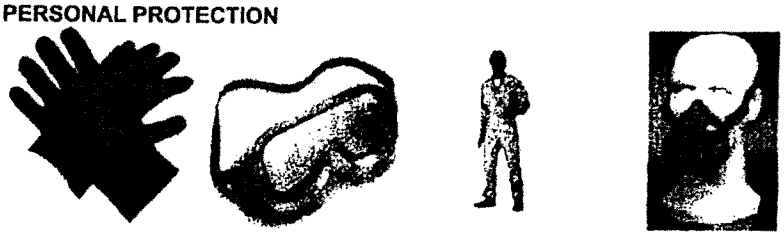
CLOMAZONE:

■ Sensory irritants are chemicals that produce temporary and undesirable side-effects on the eyes, nose or throat. Historically occupational exposure standards for these irritants have been based on observation of workers' responses to various airborne concentrations. Present day expectations require that nearly every individual should be protected against even minor sensory irritation and exposure standards are established using uncertainty factors or safety factors of 5 to 10 or more. On occasion animal no-observable-effect-levels (NOEL) are used to determine these limits where human results are unavailable. An additional approach, typically used by the TLV committee (USA) in determining respiratory standards for this group of chemicals, has been to assign ceiling values (TLV C) to rapidly acting irritants and to assign short-term exposure limits (TLV STELs) when the weight of evidence from irritation, bioaccumulation and other endpoints combine to warrant such a limit. In contrast the MAK Commission (Germany) uses a five-category system based on intensive odour, local irritation, and elimination half-life. However this system is being replaced to be consistent with the European Union (EU) Scientific Committee for Occupational Exposure Limits (SCOEL); this is more closely allied to that of the USA.

OSHA (USA) concluded that exposure to sensory irritants can:

- cause inflammation
- cause increased susceptibility to other irritants and infectious agents
- lead to permanent injury or dysfunction
- permit greater absorption of hazardous substances and
- acclimate the worker to the irritant warning properties of these substances thus increasing the risk of overexposure.

PERSONAL PROTECTION



Consult your EHS staff for recommendations

EYE

■

- Safety glasses with side shields.

Hazard Alert Code Key: EXTREME

- Chemical goggles.
- Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them. DO NOT wear contact lenses.

HANDS/FEET

■ Wear chemical protective gloves, eg. PVC.

Wear safety footwear or safety gumboots, eg. Rubber.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such as:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.
- Contaminated gloves should be replaced.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

- Neoprene gloves

OTHER

■

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

RESPIRATOR

■ Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Breathing Zone Level ppm (volume)	Maximum Protection Factor	Half-face Respirator	Full-Face Respirator
1000	10	A-1 P	-
1000	50	-	A-1 P
5000	50	Airline*	-
5000	100	-	A-2 P
10000	100	-	A-3 P
	100+		Airline* *

* - Continuous Flow ** - Continuous-flow or positive pressure demand.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

Use appropriate NIOSH-certified respirator based on informed professional judgement. In conditions where no reasonable estimate of exposure can be made, assume the exposure is in a concentration IDLH and use NIOSH-certified full face pressure demand SCBA with a minimum service life of 30 minutes, or a combination full facepiece pressure demand SAR with auxiliary self-contained air supply. Respirators provided only for escape from IDLH atmospheres shall be NIOSH-certified for escape from the atmosphere in which they will be used.

ENGINEERING CONTROLS

■ Local exhaust ventilation usually required. If risk of overexposure exists, wear an approved respirator. Correct fit is essential to obtain adequate protection an approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapors, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)

aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favorable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

PHYSICAL PROPERTIES

Does not mix with water.
Sinks in water.

State	LIQUID	Molecular Weight	239.72
Melting Range (°F)	77	Viscosity	Not Applicable
Boiling Range (°F)	527	Solubility in water (g/L)	Partly miscible
Flash Point (°F)	158- 167 (CC)	pH (1% solution)	Not applicable.
Decomposition Temp (°F)	Not Available	pH (as supplied)	Not applicable
Autoignition Temp (°F)	Not available	Vapor Pressure (mmHg)	0.143
Upper Explosive Limit (%)	Not available	Specific Gravity (water=1)	1.192
Lower Explosive Limit (%)	Not available	Relative Vapor Density (air=1)	>1
Volatile Component (%vol)	Not available	Evaporation Rate	Not available

APPEARANCE

Clear, colourless to light-brown viscous liquid; does not mix well with water (1.1 g/l). Miscible with acetone, acetonitrile, chlrooform, cyclohexanone, dichloromethane, methanol, toluene, heptane, dimethylformamide. Stable at ambient temperatures for at least 2 years.; stable at 50 deg. C. for at least 3 months. In sunlight DT50 >30 d in aqueous solutions.

CONDITIONS CONTRIBUTING TO INSTABILITY

■

Clomazone

sc-234404

Material Safety Data Sheet

Hazard Alert Code Key: EXTREME

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerization will not occur.

STORAGE INCOMPATIBILITY

■ Oxazolidines:

- are saturated heterocyclic compounds which behave, chemically, both as aldehydes and amines.
- may hydrolyse in water to yield free amine and hydroxyl groups that react with isocyanate to form urea and urethane linkages
- react readily with most phenolic compounds although phenol itself is the least reactive species requiring elevated temperatures for useful reaction rates
- reaction rates may be diminished by strong bases, lower alcohols and glycols and alkylhydroxylamines
- are effective crosslinkers for proteins with reaction occurring under acidic or alkaline conditions -reaction is thought to involve an opening of the heterocyclic ring followed by reaction with amino groups on the protein
- emulsify oils and waxes due to their alkaline nature and their esters may decompose in the presence of acids
- contact with copper, brass and aluminium should be avoided.

Avoid reaction with oxidizing agents.

For incompatible materials - refer to Section 7 - Handling and Storage.

clomazone

TOXICITY AND IRRITATION

■ unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

TOXICITY	IRRITATION
Inhalation (rat) LC50: 4800 mg/m³/4h	Skin: irritating *
Dermal (rabbit) LD50: >2000 mg/kg	Eye: irritating *
Oral (quail) LD50: >2510 mg/kg	
Oral (duck) LD50: >2510 mg/kg	
Oral (Rat) LD50: 1369 mg/kg	
Oral (rat) LD50: 1369 mg/kg (female) *	
Oral (rat) LD50: 2077 mg/kg (male) *	

■ [* The Pesticides Manual, Incorporating The Agrochemicals Handbook, 10th Edition, Editor Clive Tomlin, 1994, British Crop Protection Council].
NOEL (1 y) for dogs 500 mg/kg diet *
Toxicity Class: EPA III *

Refer to data for ingredients, which follows:
CLOMAZONE:
■ Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
■ Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.
Wastes resulting from use of the product must be disposed of on site or at approved waste sites.
■ For clomazone:
log Kow: 2.5
BCF 27:
Unlikely to accumulate in the environment.
Environmental fate:
Breakdown in soil and groundwater: Clomazone is moderately persistent in soil.

Clomazone

sc-234404

Material Safety Data Sheet

Hazard Alert Code Key: EXTREME

Soil and water: DT50 in soil 30-135 days approx.
Clomazone is readily degraded in soils under aerobic and anaerobic conditions (half-life 1 to 4.5 months). Clomazone is stable to chemical hydrolysis and has a low potential for movement in the soil.
Microbial degradation of the clomazone-containing product, Command, is promoted by high soil moisture, warm temperature, and by increasing the pH to 6.5. Degradation was faster in a sandy loam than in silt or clay loams. In field studies, the half-life of clomazone was 28 to 84 days, depending on soil type and the organic matter content. Clomazone is highly soluble in water, but it has a moderate tendency to adsorb to soil particles. It therefore has a low to moderate potential to contaminate groundwater The product Command has low mobility in sandy loam, silt loam, and clay loam soils. It is moderately mobile in fine sand .
Breakdown in water: Under laboratory conditions, clomazone was not readily hydrolysed in sterile water . However, clomazone is subject to photodegradation in water with a half life of 1.5 to 7 days reported for clomazone in solutions containing acetone, a photochemical sensitiser .
Breakdown in vegetation: Clomazone inhibits synthesis of chlorophyll and carotenoids in plants. It is absorbed by plants through the roots from the soil and by shoots. It is then translocated in the xylem and diffuses within leaves. It does not move downward in plants or from leaf to leaf. There is no foliar absorption of clomazone. Clomazone is metabolized by plants
Ecotoxicity:
Birds: Acute oral LD50 for bobwhite quail and mallard ducks >2510 mg/kg
Fish LC50 (96 h): for bluegill sunfish 34, Atlantic silverside 6.26, rainbow trout 19 mg/l
Pink shrimp LC50: 8.9 m/l
Eastern oyster: 5.3 mg/l
Moderate to slight toxicity to aquatic algae, arthropods and fish; slightly toxic to birds.
■ For azole-containing substances.
Azole fungicides and systemically used antifungal drugs directly interfere with steroidogenesis by acting as potent inhibitors of steroidogenic enzymes and are known to cause endocrine disruption mainly via this mechanism.
An important P450 enzyme involved in the steroidogenesis is aromatase. Aromatase demethylates C10 and specifically converts androstenedione and testosterone. On the protein level, the amino acid sequence homology between aromatase from fish and humans is about 50% and between rats and humans is about 78% .In mammals, aromatase is mainly expressed in the brain and the gonads, but it is also found in placental, adipose, and bone tissue . The physiologic balance between different sex steroid hormones is crucial for the development, maintenance, and function of the reproductive system as well as for the differentiation of the sexual phenotype during ontogeny. Oestrogens (estrone and estradiol) are products of the androgens (androstenedione and testosterone), and the reaction is catalysed by aromatase. In mammals, differentiation of the male phenotype depends not only on testosterone but also on estradiol generated from testosterone by neuronal aromatase in central nervous system. Therefore, disturbances in aromatase expression and/or changes in its catalytic activity are expected to exhibit negative effects on reproduction parameters
Azole-containing compounds produce profound effects in the environment. In part this is due to inhibition of several enzyme systems including those involving sterol 14[alpha]-demethylase. Sterol 14[alpha]-demethylase is a member of the superfamily of haeme-containing cytochrome P450 enzymes involved in metabolism of endogenous and xenobiotic substances. The antifungal effect of azoles is due to inhibition of sterol 14[alpha]-demethylase in fungi and yeast, thereby blocking the biosynthesis of ergosterol The subsequent lack of ergosterol is detrimental because ergosterol is an essential sterol component in the membranes of fungi and yeast. Sterol 14[alpha]-demethylase is not only expressed in fungi and yeast but is also found in many other species ranging from bacteria to mammals. In plants, the sterol 14[alpha]-demethylase reaction metabolises obtusifoliol and provides precursors for biosynthesis of phytosterols. In animals, the sterol 14[alpha]-demethylase reaction is part of the metabolic pathway leading to biosynthesis of cholesterol. Cholesterol in turn is the substrate for the production of many other sterols (e.g., the sex steroid hormones).
The DNA sequences encoding sterol 14[alpha]-demethylase of many fungi and yeast are known, as well as the sequences of mice, rats, pigs, and humans . On the protein level, the amino acid sequences are highly conserved along the phylogenetic tree. This fact is considered by many authors as an indication of the pivotal role of sterol 14[alpha]-demethylase in all organisms. The homology of the amino acid sequence level between rats and humans is 93% and 40% between fungi and humans. In humans, the sterol 14[alpha]-demethylase is expressed in many different tissues.
■ DO NOT discharge into sewer or waterways.

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
clomazone	HIGH		LOW	MED

Disposal Instructions

All waste must be handled in accordance with local, state and federal regulations.
¦ Puncture containers to prevent re-use and bury at an authorized landfill.

Hazard Alert Code Key: EXTREME

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.
DO NOT allow wash water from cleaning equipment to enter drains. Collect all wash water for treatment before disposal.

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult Waste Management Authority for disposal.
- Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorized landfill.

Section 14 - Transport information

DOT:

Symbols:	G	Hazard class or Division:	9
Identification Numbers:	UN3082	PG:	III
Label Codes:	9	Special provisions:	8, 146, 335, IB3, T4, TP1, TP29
Packaging: Exceptions:	155	Packaging: Non-bulk:	203
Packaging: Exceptions:	155	Quantity limitations: Passenger aircraft/rail:	No limit
Quantity Limitations: Cargo aircraft only:	No limit	Vessel stowage: Location:	A
Vessel stowage: Other:	None		

Hazardous materials descriptions and proper shipping names:
Environmentally hazardous substance, liquid, n.o.s

Air Transport IATA:

ICAO/IATA Class:	9	ICAO/IATA Subrisk:	None
UN/ID Number:	3082	Packing Group:	III
Special provisions:	A97		

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. *(CONTAINS CLOMAZONE)

Maritime Transport IMDG:

IMDG Class:	9	IMDG Subrisk:	None
UN Number:	3082	Packing Group:	III
EMS Number:	F-A,S-F	Special provisions:	274 909 944
Limited Quantities:	5 L		

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(contains clomazone)

Clomazone

sc-234404

Material Safety Data Sheet

Hazard Alert Code Key: EXTREME

SECTION 15 - REGULATORY INFORMATION

No data for clomazone (CAS: , 81777-89-1, 89493-06-1)

SECTION 16 - OTHER INFORMATION

LIMITED EVIDENCE

- Cumulative effects may result following exposure*.
- May produce discomfort of the eyes respiratory tract and skin*.
- May possibly affect fertility*.
- May possibly be harmful to the fetus/ embryo*.

* (limited evidence).

Ingredients with multiple CAS Nos

Ingredient Name	CAS
clomazone	81777-89-1, 89493-06-1

Reasonable care has been taken in the preparation of this information, but the author makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The author makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. For additional technical information please call our toxicology department on +800 CHEMCALL.

■ Classification of the mixture and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.
A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references.

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Issue Date: Nov-2-2009

Print Date:May-27-2010

E X T O X N E T

Extension Toxicology Network

A Pesticide Information Project of Cooperative Extension Offices of Cornell University, Michigan State University, Oregon State University, and University of California at Davis. Major support and funding was provided by the USDA/Extension Service/National Agricultural Pesticide Impact Assessment Program.

Pesticide
Information
Profile

Clomazone

Publication Date: 9/93

TRADE OR OTHER NAMES

Command, Commence, Gamit, Magister and Merit.

REGULATORY STATUS

Products containing clomazone must bear the signal word "Caution" on the label (1).

INTRODUCTION

Clomazone is a broad spectrum herbicide used for control of annual grasses and broadleaf weeds in cotton, peas, pumpkins, soybeans, sweet potatoes, tobacco, winter squash and fallow wheat fields. It can be applied early preplant, preemergent or preplant-incorporated depending on the crop, geographical area and timing. Because clomazone is an inhibitor of plant pigments, users must exercise caution to avoid drift or vapors which may cause bleaching damage to non-target foliage. Clomazone is available in emulsifiable concentrate formulations.

TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

Clomazone is a slightly toxic material by ingestion, inhalation and dermal exposure.

The oral LD50 for technical clomazone in female rats is 1,369 mg/kg and 2,077 mg/kg in male rats (1). The oral LD50 for Command 4EC is slightly higher, 1,406 mg/kg for female rats and 2,343 for male rats (1, 3). The dermal LD50 on rabbits is > 2,000 mg/kg (1). The inhalation LC50 for technical clomazone in female rats is 4.23 mg/l and in male rats is 6.52 mg/l (3). The inhalation LC50 for Command 4EC in rats is 4.5 to 4.7 mg/l (FMC Corp.).

CHRONIC TOXICITY

Two-year feeding studies with rats and mice and a 1-year feeding study with dogs showed no long term adverse effects from Command (3). In a 1-year feeding study with dogs given doses of 0, 2.5, 12.5, 62.5

or 125 mg/kg, increased liver weight occurred at the 2.5 mg/kg level. The NOEL was 12.5 mg/kg/day (6). In 2-year feeding studies with rats and mice given 20, 100, 500, 1,000 or 2,000 ppm, the NOEL was 100 ppm (4.3 mg/kg/day) in rats, and 100 ppm (15 mg/kg/day) in mice. At doses above the NOEL, rats exhibited elevated cholesterol levels, increased liver weights, and enlarged liver cells. Mice given doses above the NOEL had elevated white blood cell counts (6).

Reproductive Effects

In a 2-generation study with rats, each generation was fed clomazone at 0, 5, 50, 100 or 200 mg/kg/day for 11 weeks in between weaning and mating. There was no effect on reproductive performance other than a decrease in pup weights in the second generation at 200 mg/kg/day. The NOEL for this study was 100 mg/kg/day (7).

Teratogenic Effects

Clomazone is not teratogenic (4). No birth defects were seen in the offspring of rats given 600 mg/kg/day, the highest dose tested, nor in the offspring of rabbits given 700 mg/kg/day (5, 6).

Mutagenic Effects

Clomazone is not mutagenic. The results of several tests, including an unscheduled DNA synthesis test, 2 reverse mutation tests, and a chromosomal aberration test, have all been negative. One test was weakly positive (5, 6).

Carcinogenic Effects

EPA states that clomazone does not cause tumor formation (4). No tumor formation occurred in mice or rats given dietary doses as high as 100 mg/kg for 2 years (3, 5).

Fate in Humans and Animals

Metabolism studies in rats show that 90 to 99% of the product Command administered to rats was excreted within 72 hours and there was no significant retention of the herbicide in rat tissues (4).

ECOLOGICAL EFFECTS

Effects on Birds

The oral LD50 for technical clomazone in bobwhite quail and mallard ducks is > 2,510 mg/kg. The 8-day dietary LC50 in bobwhites and mallards is 5,620 ppm (3).

Effects on Aquatic Organisms

The 96-hour LC50 for technical clomazone in rainbow trout is 19 ppm, 34 ppm in bluegill sunfish, 6.26 mg/l in Atlantic silversides, 40.6 mg/l in sheepshead minnows, 0.566 mg/l in mysid shrimp, 5.3 mg/l in eastern oysters, and 5.2 mg/l in Daphnia magna (3).

Effects on Other Animals (Nontarget species)

No information was found.

ENVIRONMENTAL FATE

Clomazone is relatively stable to degradation by UV light (3). It is highly volatile and can drift during or after application, causing damage to sensitive, non-target plants such as ornamental trees and shrubs, roses, small grains, alfalfa, sunflowers, and vegetable crops (4).

Breakdown of Chemical in Soil and Groundwater

Clomazone is highly soluble in water, but it has a moderate tendency to adsorb to soil particles. It therefore has a low to moderate potential to contaminate groundwater (2, 9). The product Command has low mobility in sandy loam, silt loam and clay loam soils. It is moderately mobile in fine sand (3).

Microbial degradation of Command is promoted by high soil moisture, warm temperature, and by increasing the pH to 6.5. Degradation was faster in a sandy loam than in silt or clay loams (3). In field studies, the half-life of clomazone was 28 to 84 days, depending on soil type and the organic matter content (3).

When a 4EC formulation of clomazone was applied to saturated soil at 2 lb. of active ingredient per acre, no clomazone was found below the top 12 inches of soil for 61 days following the application. The level of clomazone detected in the soil just after application was 0.8 ppm. This concentration dissipated rapidly to 0.2 ppm after 6 days, and then remained constant until the end of the 61-day test (8).

Breakdown of Chemical in Surface Water

Under laboratory conditions, clomazone was not readily hydrolyzed in sterile water (10). In water, clomazone is subject to photodegradation with half-lives of 1.5 to 7 days reported for clomazone in solutions containing acetone, a photochemical sensitizer (11).

Breakdown of Chemical in Vegetation

Clomazone inhibits synthesis of chlorophyll and carotenoids in plants. It is absorbed by plants through the roots from the soil and by shoots. It is then translocated in the xylem and diffuses within leaves. It does not move downward in plants or from leaf-to-leaf. There is no foliar absorption of clomazone. Clomazone is metabolized by plants (3).

PHYSICAL PROPERTIES AND GUIDELINES

Clomazone is a colorless to light brown, viscous liquid above room temperature. When cooled, it forms a white crystalline solid. Clomazone is not flammable (3).

Workers handling clomazone should avoid breathing vapors; wear goggles to prevent eye contact and protective clothing to prevent prolonged skin contact (3).

Exposure Guidelines:

ADI: 0.043 mg/kg/day based on a NOEL of 4.3 mg/kg/day in a 2 year rat feeding study and a 100 fold

safety margin (5).

MPI: 0.6 mg/kg/day for a 60 kg person (5).

Physical Properties:

CAS #:	81777-89-1
Chemical name:	2-(2-chlorophenyl) methyl-4,4-dimethyl-3-isoxazolidinone
Chemical Class/Use:	herbicide
Specific gravity:	1.192 at 20 degrees C (1)
H20 solubility:	1100 ppm (1, 2)
Solubility in other solvents:	soluble in acetone, acetonitrile, chloroform, cyclohexanone, dimethyl formamide, dioxane, heptane, hexane, methanol, methylene chloride, toluene, and xylene (3).
Melting point:	25 degrees C (FMC)
Boiling point:	275.4 degrees C at atmospheric pressure (3)
Decomposition temperature:	> 200 degrees C (Fe catalyst) (3)
Flashpoint:	314 degrees F for technical clomazone; 106-109 degrees F for Command 4EC (1).
Vapor pressure:	1.92 x 10-2 Pa at 25 degrees C (1.44 x 10-4 mm Hg) (1, 2)
Koc:	274 (2)

BASIC MANUFACTURER

FMC Corp.
Agricultural Chemicals Group
2000 Market St.
Philadelphia, PA 19103
Emergency: 800-331-3148

Review by Basic Manufacturer:

Comments solicited: April, 1993
Comments received: April, 1993

REFERENCES

1. Meister, R.T. (ed.). 1993. Farm Chemicals Handbook '93. Meister Publishing Company, Willoughby, OH.
2. U. S. Department of Agriculture, Soil Conservation Service. 1990 (Nov.). SCS/ARS/CES Pesticide Properties Database: Version 2.0 (Summary). USDA - Soil Conservation Service, Syracuse, NY.
3. WSSA Herbicide Handbook Committee. 1989. Herbicide Handbook of the Weed Science Society of America, 6th Ed. WSSA, Champaign, IL.
4. U.S. Environmental Protection Agency. May 1, 1986. Pesticide Fact Sheet Number 90: Command Herbicide. US EPA, Office of Pesticide Programs, Registration Div., Washington, DC.

5. U.S. Environmental Protection Agency. April 28, 1988. Pesticide tolerance for 2-(2-chlorophenyl) methyl-4,4-dimethyl-3-isoxazolidinone. Federal Register 53 (82): 15237-8.
6. U.S. Environmental Protection Agency. August 28, 1991. Pesticide tolerance for 2-(2-chlorophenyl) methyl-4,4-dimethyl-3-isoxazolidinone. Federal Register 56 (167): 42574-5.
7. Salamon, C.M. and C.K. Borders. June 12, 1984. 2-generation reproduction study in albino rats with FMC 57020 Technical - Final Report (FMC Study No, A82-75, Toxigenics Study No. 450-1095). Unpublished report prepared by Toxigenics, Inc. for FMC Corp., Philadelphia, PA.
8. Witkonton, S. July 13, 1984. Mobility of FMC 57020 residues in soil (FMC Report No. P-0904). Unpublished report prepared by FMC Corp., Philadelphia, PA.
9. Froelich, L.W. June 7, 1982. Soil adsorption/desorption characteristics of FMC 57020 (FMC Report No. M-4861). Unpublished report prepared by FMC Corp., Philadelphia, PA.
10. Dziedzic, J.E. June 21, 1982. Hydrolysis study (FMC Report No. P- 0465). Unpublished report prepared by FMC Corp., Philadelphia, PA.
11. Wu, J. May 11, 1984. Photodegradation of FMC 57020 in water (FMC Report No. P-0869). Unpublished report prepared by FMC Corp., Philadelphia, PA.

For more information relative to pesticides and their use in New York State, please contact the PMEP staff at:

5123 Comstock Hall
Cornell University
Ithaca, NY 14853-0901
(607) 255-1866

recall 11/10/2020

10/30/2020 Construction Health

Susan Bate

From: Kim Macellaro
Sent: Friday, October 30, 2020 11:48 AM
To: Susan Bate
Subject: Fw: OPRA request - Environmental Records

Kim Macellaro, RMC, CMC
Ewing Municipal Clerk
2 Jake Garzio Drive
Ewing, New Jersey 08628
Work: (609)538-7609
Fax: (609)771-0480

Thank you for contacting Ewing Township. We are open but with minimal staff in the office Monday through Friday, and other essential Officials working alternate schedules or remotely. The building is closed to the public every day, regardless of whether staff is present.

This e-mail is being monitored, however there may be a delayed response to your e-mail. For further information regarding the changes in effect in response to the COVID-19 outbreak, please go to ewingnj.org

Stay home and stay healthy!

From: Derek Grothusen <opra+request-18251-ef2a0d8a@requests.opramachine.com>
Sent: Friday, October 30, 2020 11:37 AM
To: Kim Macellaro <kmacellaro@ewingnj.org>
Subject: OPRA request - Environmental Records

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Dear Ewing Township,

This is a request for public records made under OPRA and the common law right of access. I am not required to fill out an official form. Please acknowledge receipt of this message.
Records requested:
EnviroSure is conducting a Phase I ESA at 701 Charles Ewing Boulevard, Ewing Township, NJ, so we are requesting a search of all files pertaining to the property. Especially, underground storage tanks, environmental concerns, building permits, and ownership records. Electronic copies are preferred if available. Thank you.

Yours faithfully,

Derek Grothusen
EnviroSure, Inc.

RECEIVED
OCT 2020
EWING, NJ
CLERK'S OFFICE

Please use deliver records electronically via email to the below UNIQUE address for all replies to this request:
opra+request-18251-ef2a0d8a@requests.opramachine.com

Is kmacellaro@ewingnj.org the wrong address for OPRA requests to Ewing Township? If so, please contact us using this form:
https://opramachine.com/change_request/new?body=ewing_township

Disclaimer: This message and any reply that you make will be published on the internet. Our privacy and copyright policies:
https://opramachine.com/help/officers

View this OPRA request & responses online:
https://opramachine.com/request/environmental_records_33

Please note that in some cases publication of requests and responses will be delayed.

If you find this service useful as an OPRA custodian, please ask your web manager to link to us from your organisation's website.
