



**PECO NUCLEAR**

A Unit of PECO Energy

Nuclear Group Headquarters  
200 Exelon Way  
Kennett Square, PA 19348

December 8, 2000

Docket Nos. 50-352  
50-353

License Nos. NPF-39  
NPF-85

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

Subject: PECO Energy Company's Merger with Unicom Corporation  
Limerick Generating Station, Units 1 and 2  
NPDES Permit No. PA0051926

Dear Sir/Madam:

In accordance with Appendix B, Section 3.2 of the Limerick Generating Station Units 1 and 2 Operating Licenses, this letter is being submitted to provide copies of the proposed change to NPDES permit No. PA0051926 to allow the use of Depositrol PY5200 as an alternate to Depositrol PY5204 (which is already approved for use in our permit) in the cooling tower for both Units 1 and 2. Enclosed is a copy of the cover letter sent to the Pennsylvania Department of Environmental Protection which includes copies of the Material Safety Data Sheets for both Depositrol PY5200 and Depositrol PY5204.

If you have any questions or require additional information, please do not hesitate to contact us.

Very truly yours,

James A. Hutton  
Director - Licensing

Attachments

cc: H. J. Miller, Administrator, Region I, USNRC  
A. C. McMurtry, USNRC Senior Resident Inspector, PBAPS  
B. Buckley, Project Manager, USNRC

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**PECO NUCLEAR**

A Unit of PECO Energy

Nuclear Group Headquarters  
200 Exelon Way  
Kennett Square, PA 19348

December 8, 2000

Ms. Jenifer Fields  
Pennsylvania Department of Environmental Protection  
Suite 6010  
Lee Park  
555 North Lane  
Conshohocken, PA 19428-2233

Subject: Limerick Generating Station  
NPDES Permit No. PA0051926

Dear Ms. Fields:

Pursuant to Chapter 92.7, "Reporting of New or Increased Discharges," of the Department's Rules and Regulations, we hereby request the subject permit be amended to allow the use of Depositrol PY5200 as an alternate to Depositrol PY5204 (which is already approved for use in our permit) in the cooling tower for both Units 1 and 2. Depositrol PY5200 is a 30 percent active solution in comparison to Depositrol PY5204 which is a 40 percent active solution. The chemical will be used for scale control and will affect the discharge at outfall 001. Depositrol PY5200 will be directly applied at 14 parts per million as product and 4.2 parts per million as active solution per each cooling towers. Each tower is expected to be treated daily year round.

The expected usage rates are as follows:

	<u>Expected</u>	<u>Maximum</u>
Unit 1	1000 pounds per day	2000 pounds per day
Unit 2	1000 pounds per day	2000 pounds per day
Total	2000 pounds per day	4000 pounds per day

Due to the fact that Depositrol PY5200 has a lower percent active solution than Depositrol PY5204 explains the higher usage rates to accomplish the same effects. Based on these usage rates, the expected discharge concentration will be 14 parts per million as product and 4.2 parts per million as active solution.

Enclosed is the Material Safety Data Sheets for Depositrol PY5200 which includes the Aquatic Toxicology information. Also included is a copy of the Material Safety Data Sheet for Depositrol PY5204 so that you may compare the Aquatic Toxicology information.

If you have any questions or require additional information, please contact me at (610)765-5679.

Sincerely,

*Karen L. Ferich*

Karen L. Ferich  
Environmental Physicist

Attachments

BETZDEARBORN MATERIAL  
SAFETY DATA SHEET

EFFECTIVE DATE: 06-FEB-1998  
PRINTED DATE: 15-NOV-2000

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1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : DEPOSITROL PY5200

PRODUCT APPLICATION AREA: WATER-BASED DEPOSIT CONTROL AGENT.

COMPANY ADDRESS:

BetzDearborn Inc.  
4636 Somerton Road , Trevose , PA 19053  
Information phone number: 215 355-3300

EMERGENCY TELEPHONE (HEALTH/ACCIDENT): (800)-877-1940 (USA)

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2) COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

PRODUCT NAME : DEPOSITROL PY5200  
EFFECTIVE DATE: 06-FEB-1998

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### 3) HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

##### CAUTION

Non-hazardous to skin. May cause slight irritation to the eyes.  
Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable  
Emergency Response Guide is not applicable  
Odor: Slight; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing  
apparatus(full face-piece type). Proper fire-extinguishing media:  
dry chemical, carbon dioxide, foam or water

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#### POTENTIAL HEALTH EFFECTS

##### ACUTE SKIN EFFECTS:

Primary route of exposure; Non-hazardous to skin.

##### ACUTE EYE EFFECTS:

May cause slight irritation to the eyes.

##### ACUTE RESPIRATORY EFFECTS:

Mists/aerosols may cause irritation to upper respiratory tract.

##### INGESTION EFFECTS:

May cause slight gastrointestinal irritation.

##### TARGET ORGANS:

No evidence of potential chronic effects.

##### MEDICAL CONDITIONS AGGRAVATED:

Not known.

##### SYMPTOMS OF EXPOSURE:

May cause redness or itching of skin, irritation, and/or tearing of  
eyes (direct contact).

EFFECTIVE DATE: 06-FEB-1998

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4) FIRST AID MEASURES

SKIN CONTACT:

No treatment required.

EYE CONTACT:

Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.

INHALATION:

Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.

INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

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5) FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

FLASH POINT:

> 200F    > 93C P-M(CC)

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6) ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container.

Flush area with water. Wet area may be slippery. Spread sand/grit.

DISPOSAL INSTRUCTIONS:

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

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7) HANDLING AND STORAGE

HANDLING:

Normal chemical handling.

STORAGE:

Keep containers closed when not in use. Store in cool ventilated location. Store away from oxidizers.

EFFECTIVE DATE: 06-FEB-1998

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## 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

## EXPOSURE LIMITS

This product is not hazardous as defined by OSHA regulations.

## ENGINEERING CONTROLS:

adequate ventilation

## PERSONAL PROTECTIVE EQUIPMENT:

Use protective equipment in accordance with 29CFR 1910 Subpart I

## RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

## SKIN PROTECTION:

Use of gloves made of rubber or synthetic material is optional. Wash off after each use. Replace as necessary.

## EYE PROTECTION:

splash proof chemical goggles

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## 9) PHYSICAL AND CHEMICAL PROPERTIES

Specific Grav. (70F, 21C)	1.169	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	25	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-4		
Viscosity(cps 70F, 21C)	42	% Solubility (water)	100.0
Odor		Slight	
Appearance		Yellow	
Physical State		Liquid	
Flash Point	P-M(CC)	> 200F	> 93C
pH As Is (approx.)		5.2	
Evaporation Rate (Ether=1)		< 1.00	

NA = not applicable      ND = not determined

EFFECTIVE DATE: 06-FEB-1998

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10) STABILITY AND REACTIVITY

STABILITY:

Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITIES:

May react with strong oxidizers.

DECOMPOSITION PRODUCTS:

Thermal decomposition (destructive fires) yields elemental oxides.

BETZDEARBORN INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"A"

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11) TOXICOLOGICAL INFORMATION

Oral LD50 RAT: >5,000 mg/kg

Dermal LD50 RABBIT: >2,000 mg/kg

Skin Irritation Score RABBIT: 0.3

NOTE - Value is for testing of a similar material

Eye Irritation Score RABBIT: 2.0

NOTE - Value is for testing of a similar material; completely reversible by 72 hrs.

EFFECTIVE DATE: 06-FEB-1998

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12) ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY

Fathead Minnow 96 Hour Static Renewal Bioassay  
pH of test solutions was adjusted to a level of 6-9.

LC50: 1960 mg/L  
No Effect Level: 313 mg/L

Daphnia magna 48 Hour Static Renewal Bioassay  
pH of test solutions was adjusted to a level of 6-9.

LC50: 1767 mg/L  
No Effect Level: 1250 mg/L

Mysid Shrimp 48 Hour Static Renewal Bioassay  
pH of test solutions was adjusted to a level of 6-9.

10% Mortality: 16000 mg/L  
0% Mortality: 8000 mg/L

Sheepshead Minnow 96 Hour Static Renewal Bioassay  
pH of test solutions was adjusted to a level of 6-9.

0% Mortality: 16000 mg/L

BIODEGRADATION

COD (mg/gm):	368 Calculated
TOC (mg/gm):	144 Calculated
BOD-5 (mg/gm):	10 Calculated
BOD-28 (mg/gm):	32 Calculated

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13) DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :  
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

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14) TRANSPORT INFORMATION

DOT HAZARD:	Not Applicable
UN / NA NUMBER:	Not applicable
DOT EMERGENCY RESPONSE GUIDE #:	Not applicable



EFFECTIVE DATE: 06-FEB-1998

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15) REGULATORY INFORMATION

TSCA:

All components of this product are listed in the TSCA inventory.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

No regulated constituent present at OSHA thresholds

SARA SECTION 312 HAZARD CLASS:

Product is non-hazardous under Section 311/312

SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds

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CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC

ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituent present at OSHA thresholds

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MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

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16) OTHER INFORMATION

NFPA/HMIS

CODE TRANSLATION

Health	0	Minimal Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
	-----	-----	-----
MSDS status:	29-JAN-1997		** NEW **
	10-SEP-1997	3, 8, 10, 11, 16; EDIT: 4	29-JAN-1997
	06-FEB-1998	12	10-SEP-1997

**BETZDEARBORN MATERIAL  
SAFETY DATA SHEET****BetzDearborn**

EFFECTIVE DATE: 08-AUG-2000  
PRINTED DATE: 29-NOV-2000

**1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME : DEPOSITROL PY5204****PRODUCT APPLICATION AREA: WATER-BASED DEPOSIT CONTROL AGENT.****COMPANY ADDRESS:**

BetzDearborn Inc.  
4636 Somerton Road , Trevose , PA 19053  
Information phone number: 215 355-3300

**EMERGENCY TELEPHONE (HEALTH/ACCIDENT): (800)-877-1940 (USA)****2) COMPOSITION / INFORMATION ON INGREDIENTS**

Information for specific product ingredients as required by the  
U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to  
additional sections of this MSDS for our assessment of the potential  
hazards of this formulation.

**HAZARDOUS INGREDIENTS:**

CAS#	CHEMICAL NAME
7775-27-1	SODIUM PERSULFATE Oxidizer; potential sensitizer (skin)

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

**PRODUCT NAME : DEPOSITROL PY5204**  
**EFFECTIVE DATE: 08-AUG-2000**

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### 3) HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

##### CAUTION

Non-hazardous to skin. May cause slight irritation to the eyes.  
Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable  
Emergency Response Guide is not applicable  
Odor: Slight; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing  
apparatus(full face-piece type). Proper fire-extinguishing media:  
dry chemical, carbon dioxide, foam or water

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#### POTENTIAL HEALTH EFFECTS

##### ACUTE SKIN EFFECTS:

Primary route of exposure; Non-hazardous to skin.

##### ACUTE EYE EFFECTS:

May cause slight irritation to the eyes.

##### ACUTE RESPIRATORY EFFECTS:

Mists/aerosols may cause irritation to upper respiratory tract.

##### INGESTION EFFECTS:

May cause slight gastrointestinal irritation.

##### TARGET ORGANS:

No evidence of potential chronic effects.

##### MEDICAL CONDITIONS AGGRAVATED:

Not known.

##### SYMPTOMS OF EXPOSURE:

May cause redness or itching of skin, irritation, and/or tearing of  
eyes (direct contact).

**PRODUCT NAME : DEPOSITROL PY5204**  
**EFFECTIVE DATE: 08-AUG-2000**

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#### **4) FIRST AID MEASURES**

**SKIN CONTACT:**

Wash thoroughly with soap and water. Remove contaminated clothing.  
Get medical attention if irritation develops or persists.

**EYE CONTACT:**

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists after flushing.

**INHALATION:**

If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

**INGESTION:**

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician.  
Dilute contents of stomach using 3-4 glasses milk or water.

**NOTES TO PHYSICIANS:**

No special instructions

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#### **5) FIRE FIGHTING MEASURES**

**FIRE FIGHTING INSTRUCTIONS:**

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

**EXTINGUISHING MEDIA:**

dry chemical, carbon dioxide, foam or water

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition (destructive fires) yields elemental oxides.

**FLASH POINT:**

> 200F > 93C P-M(CC)

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#### **6) ACCIDENTAL RELEASE MEASURES**

**PROTECTION AND SPILL CONTAINMENT:**

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container.  
Flush area with water. Wet area may be slippery. Spread sand/grit.

**DISPOSAL INSTRUCTIONS:**

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

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#### **7) HANDLING AND STORAGE**

**HANDLING:**

Normal chemical handling.

**STORAGE:**

Keep containers closed when not in use. Store above 55F to prevent crystallization. If storage is below 55F, warm and mix prior to use to ensure homogeneity.

## 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE LIMITS CHEMICAL NAME

SODIUM PERSULFATE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

### ENGINEERING CONTROLS:

adequate ventilation

### PERSONAL PROTECTIVE EQUIPMENT:

Use protective equipment in accordance with 29CFR 1910 Subpart I

#### RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

#### SKIN PROTECTION:

Use of gloves made of rubber or synthetic material is optional. Wash off after each use. Replace as necessary.

#### EYE PROTECTION:

splash proof chemical goggles

## 9) PHYSICAL AND CHEMICAL PROPERTIES

Specific Grav. (70F, 21C)	1.233	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	~ 55	Vapor Density (air=1)	< 1.00
Freeze Point (C)	~ 13		
Viscosity(cps 70F, 21C)	128	% Solubility (water)	100.0
Odor		Slight	
Appearance		Yellow	
Physical State		Liquid	
Flash Point	P-M(CC)	> 200F	> 93C
pH As Is (approx.)		5.2	
Evaporation Rate (Ether=1)		< 1.00	

NA = not applicable ND = not determined

**PRODUCT NAME : DEPOSITROL PY5204**  
**EFFECTIVE DATE: 08-AUG-2000**

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## **10) STABILITY AND REACTIVITY**

### **STABILITY:**

Stable under normal storage conditions.

### **HAZARDOUS POLYMERIZATION:**

Will not occur.

### **INCOMPATIBILITIES:**

May react with strong oxidizers.

### **DECOMPOSITION PRODUCTS:**

Thermal decomposition (destructive fires) yields elemental oxides.

### **BETZDEARBORN INTERNAL PUMPOUT/CLEANOUT CATEGORIES:**

"A"

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## **11) TOXICOLOGICAL INFORMATION**

Oral LD50 RAT:

>5,000 mg/kg

Dermal LD50 RABBIT:

>5,000 mg/kg

Skin Irritation Score RABBIT:

0.3

Eye Irritation Score RABBIT:

SLIGHT

NOTE - Value is for testing of a similar material; completely reversible by 72 hrs.

**PRODUCT NAME : DEPOSITROL PY5204**  
**EFFECTIVE DATE: 08-AUG-2000**

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## **12) ECOLOGICAL INFORMATION**

### **AQUATIC TOXICOLOGY**

**Fathead Minnow 96 Hour Static Renewal Bioassay**  
pH of test solutions was adjusted to a level of 6-9.

LC50: 1470 mg/L  
No Effect Level: 235 mg/L

**Fathead Minnow 96 Hour Static Renewal Bioassay**

LC50: 1470 mg/L  
No Effect Level: 235 mg/L

**Daphnia magna 48 Hour Static Renewal Bioassay**  
pH of test solutions was adjusted to a level of 6-9.

LC50: 1320 mg/L  
No Effect Level: 930 mg/L

**Daphnia magna 48 Hour Static Renewal Bioassay**

LC50: 1320 mg/L  
No Effect Level: 930 mg/L

**Mysid Shrimp 48 Hour Static Renewal Bioassay**  
pH of test solutions was adjusted to a level of 6-9.

10% Mortality: 12000 mg/L  
0% Mortality: 6000 mg/L

**Mysid Shrimp 48 Hour Static Renewal Bioassay**

10% Mortality: 12000 mg/L  
0% Mortality: 6000 mg/L

**Sheepshead Minnow 96 Hour Static Renewal Bioassay**  
pH of test solutions was adjusted to a level of 6-9.

0% Mortality: 12000 mg/L

**PRODUCT NAME : DEPOSITROL PY5204**  
**EFFECTIVE DATE: 08-AUG-2000**

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## **12) ECOLOGICAL INFORMATION**

### **AQUATIC TOXICOLOGY (continued)**

Sheepshead Minnow 96 Hour Static Renewal Bioassay

0% Mortality: 12000 mg/L

Rainbow Trout 96 Hour Static Acute Bioassay

0% Mortality: 5000 mg/L

### **BIODEGRADATION**

COD (mg/gm): 490

TOC (mg/gm): 192

BOD-5 (mg/gm): 13

BOD-28 (mg/gm): 43

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## **13) DISPOSAL CONSIDERATIONS**

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :  
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

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## **14) TRANSPORT INFORMATION**

DOT HAZARD: Not Applicable  
UN / NA NUMBER: Not applicable  
DOT EMERGENCY RESPONSE GUIDE #: Not applicable

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## **15) REGULATORY INFORMATION**

### **TSCA:**

All components of this product are listed in the TSCA inventory.

### **CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):**

No regulated constituent present at OSHA thresholds

### **SARA SECTION 312 HAZARD CLASS:**

Immediate(acute)

### **SARA SECTION 302 CHEMICALS:**

No regulated constituent present at OSHA thresholds

### **SARA SECTION 313 CHEMICALS:**

No regulated constituent present at OSHA thresholds



**PRODUCT NAME : DEPOSITROL PY5204**  
**EFFECTIVE DATE: 08-AUG-2000**

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## CALIFORNIA REGULATORY INFORMATION

### CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituent present at OSHA thresholds

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## MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

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## 16) OTHER INFORMATION

### NFPA/HMIS

### CODE TRANSLATION

Health	0	Minimal Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

## CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
	-----	-----	-----
MSDS status:	29-JAN-1997		** NEW **
	10-SEP-1997	3, 8, 11, 16; EDIT: 4	29-JAN-1997
	03-MAY-2000	12	10-SEP-1997
	08-AUG-2000	2, 4, 8	03-MAY-2000