

Exelon Nuclear  
Peach Bottom Atomic Power Station  
1848 Lay Road  
Delta, PA 17314-9032

Telephone 717.456.7014  
www.exeloncorp.com

50-277/278

Mr. Sean Furjanic  
Pennsylvania Department of Environmental Protection  
Water Quality Management  
909 Elmerton Avenue  
Harrisburg, PA 17110-8200

May 15, 2002

Subject: Request for Chemical Use Approval NPDES Permit PA0009733

Dear Mr. Furjanic:

Peach Bottom Atomic Power Station, NPDES Permit PA0009733, is requesting the addition of two chemicals to the approved chemical additive list. The two chemicals are Polyfloc AP1120 and Polyfloc PC1195. The Material Safety Data Sheets are attached. BetzDearborn Inc, 4636 Somerton Rd., Trevose, PA 19053 manufactures the chemicals.

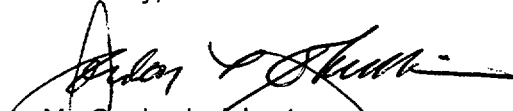
The chemicals are coagulants that will be added to the Phase Separators in the Radwaste Treatment System. The phase separators receive input from the Backwash Receiving Tank. The Backwash Receiving Tank receives input from the backwash of the Filter/Demineralizer System filters. These chemicals will be used to aid in the settling of the resin and insoluble iron. The improved settling of the solids will reduce the number of times the Radwaste Processing Filters need to be backwashed reducing the amount of waste generated during the year. The water is decanted to the head of the Radwaste Treatment System and the solids are dewatered and sent to an NRC approved radwaste burial site. The Radwaste Treatment System consists of a filter and a deep bed demineralizer. The majority of the treated water is reused in the plant. When water is discharged into the Susquehanna River, it is discharged in batches of 25,000 gallons with a typical dilution ratio of 4.67E-5.

Initial laboratory tests indicate the optimum, effective concentration to be in the range of 0.5 to 1.5 parts per million (ppm) of each additive. This equates to an annual consumption rate of 58.4 pounds per additive and a daily consumption rate of 0.16 pounds per additive.

Subject to State approval, Peach Bottom intends to commence treatment using these chemicals on June 3, 2002.

If you have any questions on this matter please feel free to contact Mr. Tracy Siglin at 610-765-5904 or Ms. Michele Magness at 717-456-4532. Thank you for your cooperation.

Sincerely;

  
Mr. Gordon L. Johnston  
Plant Manager, PBAPS  
JLK mem  
IWS/MEM:tlm

Cool  


Cc: H. J. Miller, Administrator, Region I, USNRC with attachments  
A. C. Murtray, USNRC Senior Resident Inspector, PBAPS with attachments  
A.M. Arcilla without attachments  
D.M. Jordan with attachments  
M.E. Magness without attachments  
T.J. Siglin with attachments  
US NRC Document Control Desk with attachments  
CCN 02-14044

APPROVED

## CML Product Information Sheet

ACTIVE  
Page 1  
1100-444

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Product Klaraid PC1195  
Manufacturer BETZDEARBORN INC.  
4636 SOMERTON ROAD  
TREVOSE PA 19053  
(215)355-3300 (800)877-1940  
Classification I (Blue) Coversheet Rev. Date: 04/22/2002  
Database Add Date: 04/22/2002  
Product Comments Avoid strong oxidizers - New Item 04/22/02 PBAPS BTW - See A/R# 1365743  
Product Category SYSTEM ADDITIVES, ANTIFREEZE, CORROSION INHIBITORS, RESINS  
Product Label 1100-444  
Storeroom Code 116-17912  
Storage Zone GENERAL

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Hazard Codes: Health> 1 Flammability> 1 Reactivity> 1 MSDS Date: 05/22/2000

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### Hazardous Ingredients List (Section 2 of the MSDS)

Ingredient	CAS #	%Min	%Max
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### Hazardous Category Codes

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**FOR INFORMATION ONLY. COMPLETE INFORMATION SHOULD BE OBTAINED FROM THE MSDS.**  
In case of conflicting information, notify Radwaste/Environmental Group and follow the MSDS.

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\*\*\* End of Report \*\*\*

Controlled Materials Program (CMP)

Effective Date

PORC	NO
SQR	YES
NQA	NO
50.59	NO
Resp. Mgr.	YES

CONTROLLED MATERIAL USE CLASSIFICATION REQUEST

One-Time Exemption  <sup>BTW</sup> Permanent  Revision  Re-evaluation   
CMP# 1100-0444 Received Date (By Chemical/Hazmat Coordinator) : \_\_\_\_\_

SECTION A  
TO BE COMPLETED BY THE MATERIAL REQUESTER

Product Location: \_\_\_\_\_ Date Requested: 4-12-02 Date Needed: 4-16-02  
Inventory Parts Catalogue No. (IPC#): 116-19912 Requested Expiration Date: ~~6-16-02~~ <sup>BTW 4/22/02</sup>  
Material Safety Data Sheet (MSDS) Date: 5-22-2000  
Product Name: Klaraid PC1195  
Manufacturer: Betz Dearborn, Division of Hercules Inc.  
Mfg. Address: 4636 Somerton Rd, Trevose, PA 19053  
Mfg. Phone: 215-355-3300 Emergency Phone: 800-877-1940  
Planned Use/Material Type: Radwaste Polymer - Radwaste Phase Separator  
System/Equipment: \_\_\_\_\_  
Usage Amount: \_\_\_\_\_ Critical Systems ( Y/N/NA ): \_\_\_\_\_  
Requester/Section Name: Michele Magness Requester's Phone: 4532  
Mail Code: PS 2-1 Vendor Required ( Y/N ): \_\_\_\_\_  
New Product Justification: (USE AS A CLASS I USE)

SECTION B  
TO BE COMPLETED BY CMP MANAGEMENT

Health Rating: 0 <sup>BTW</sup> Flammability Rating: 1 Reactivity Rating: 0 <sup>BTW</sup>  
Storage:  
General  Acid \_\_\_\_\_ Reactive/Oxidizer \_\_\_\_\_ Compressed Gas \_\_\_\_\_  
Flammable \_\_\_\_\_ Base \_\_\_\_\_ Combustible Liquid \_\_\_\_\_  
Health Hazard (Y/N) : N Disposal Restricted (Y/N) : N Material Category: 1100  
Incompatibilities With: (check one)  
1-Acids \_\_\_\_\_ 2-Bases \_\_\_\_\_ 3-Flammables \_\_\_\_\_ 4-Oxidizers \_\_\_\_\_ 9-All other materials \_\_\_\_\_  
Material Approved (Y/N) YES Reviewer: B.T. Wang Date: 4/18/02

SECTION C  
TO BE COMPLETED BY SITE CHEMISTRY/Chemical/Hazmat Coordinator

Controlled Material Classification: (I-V) I Chemistry Approval (Y/N): Y  
Reviewer: [Signature] WT Scott Reviewed Date: 04/19/02  
Reviewer Comments & Hazard Codes: \_\_\_\_\_

Disapproval Comments: \_\_\_\_\_

ONE-TIME EXEMPTIONS

Expiration Date: ~~6-16-02~~ <sup>BTW 4/22/02</sup>  
Comments: \_\_\_\_\_  
Exemption Expiration Notification Closure: \_\_\_\_\_ Date: \_\_\_\_\_



ISSUE DATE: 22-MAY-2000

# MATERIAL SAFETY DATA SHEET

BetzDearborn, Division of Hercules Incorporated  
4636 Somerton Road  
Trevose, PA 19053  
Business telephone: (215) 355-3300

**HMIS RATINGS**  
(See Section 16 for additional information)  
HEALTH: 0  
FLAMMABILITY: 1  
REACTIVITY: 0

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

## 1 PRODUCT IDENTIFICATION

PRODUCT NAME:

**KLARAIID PC1195**

PRODUCT APPLICATION AREA:

**COAGULANT.**

## 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.

## 3 HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW

#### CAUTION

Non-hazardous to skin. May cause moderate 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: Amine; Appearance: Colorless To Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing

apparatus (full face-piece type). Proper fire-extinguishing media:  
dry chemical/CO2/foam or water--slippery condition; use sand/grit.

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**

Primary route of exposure; Non-hazardous to skin.

**ACUTE EYE EFFECTS:**

May cause moderate 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).

**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 immediate medical attention.

**INHALATION:**

Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get immediate 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

**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/CO2/foam or water--slippery condition; use sand/grit.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Thermal decomposition (destructive fires) yields elemental oxides.

**FLASH POINT:**

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

## 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.

## 7 HANDLING & STORAGE

### HANDLING:

Normal chemical handling.

### STORAGE:

Keep containers closed when not in use. Protect from freezing.

## 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

## 9 PHYSICAL & CHEMICAL PROPERTIES

Specific Grav. (70F, 21C)	1.152	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	5	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-15		
Viscosity(cps 70F, 21C)	4100	% Solubility (water)	100.0

Odor	Amine
Appearance	Colorless To Yellow
Physical State	Liquid
Flash Point	P-M(CC) > 200F > 93C
pH As Is (approx.)	5.1
Evaporation Rate (Ether=1)	< 1.00

NA = not applicable      ND = not determined

## 10 STABILITY & 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"

## 11 TOXICOLOGICAL INFORMATION

Oral LD50 RAT: 7,070 mg/kg

NOTE - Rat oral LD50: 5,000 mg/kg per alternate source

Dermal LD50 RABBIT: 11,500 mg/kg

Inhalation LC50 RAT: >2,500 ppm/4hr

Skin Irritation Score RABBIT: 0.0

NOTE - Rabbit Irritation Score: 0.1 per alternate source

Eye Irritation Score RABBIT: 17.33

NOTE - Max. score- 1hr; completely reversible by day 14; Score 9.0 per alternate study

## 12 ECOLOGICAL INFORMATION

### AQUATIC TOXICOLOGY

Bluegill Sunfish 96 Hour Static Acute Bioassay

LC50= .53; No Effect Level= .32 mg/L

Daphnia magna 48 Hour Static Acute Bioassay

LC50= .57; No Effect Level= .24 mg/L

Fathead Minnow 96 Hour Static Renewal Bioassay

LC50= .43; No Effect Level= .25 mg/L

Rainbow Trout 96 Hour Static Acute Bioassay

LC50= .41; No Effect Level= .24 mg/L

### BIODEGRADATION

BOD-28 (mg/g): 3

BOD-5 (mg/g): 0

COD (mg/g): 390

TOC (mg/g): 190

## 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.

## 14 TRANSPORT INFORMATION



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

## 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

**FOOD AND DRUG ADMINISTRATION:**

21 CFR 176.170 (components of paper and paperboard in contact with aqueous and fatty foods)

**USDA FEDERALLY INSPECTED MEAT AND POULTRY PLANTS:**

SEC.L1

**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

**CALIFORNIA REGULATORY INFORMATION**

**CALIFORNIA SAFE DRINKING WATER AND TOXIC**

**ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:**

No regulated constituent present at OSHA thresholds

**MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 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:	28-JAN-1997		** NEW **
	23-MAY-1997	15	28-JAN-1997
	28-MAY-1997	15	23-MAY-1997
	09-SEP-1997	3,8,11;EDIT:4	28-MAY-1997
	18-JAN-1999	15	09-SEP-1997
	17-MAY-1999	11	18-JAN-1999
	22-MAY-2000	4,16	17-MAY-1999

PEACH BOTTOM ----- INVENTORY PARTS CATALOG -----PAGE 4 OF 11  
COMMAND INPUT====> \_\_\_\_\_ DISPLAY MODI

STOCK CODE : 116 17912 STS/LAST UPDT : READY 04/22/02 RWJ2  
PURCHASE CL: 5 DATE CANCELLED: \_\_\_\_\_ POOLED INV MGT: \_ COMPONENT FLAG: N  
DESCRIPTION: COAGULANT, KLARAID PC1195, \_\_\_\_\_ 45 LB PAIL, \_\_\_\_\_

USED FOR : LATER \_\_\_\_\_

===== EXTENDED DESCRIPTION =====

DESCRIPTION	ID	DATE

===== FREEFORM COMMENTS =====

P	COMMENTS	ID	DATE
C	STATUS INDICATOR RCYNG CHANGED FROM Y TO N BY RWJ2	PIMS	04/19/02
C	STATUS INDICATOR ISSUE CHANGED FROM Y TO N BY RWJ2	PIMS	04/19/02
W	ISSUE ONLY TO CHEMISTRY DEPT	RWJ2	04/22/02
T	ISSUE ONLY TO CHEMISTRY DEPT	RWJ2	04/22/02
C	*** TURN W/O FLAG TO "N" AND ISSUE FLAG TO "N" AFTER EVERY	RWJ2	04/22/02
C	ORDER AND ISSUE, BRUCE WARGO WANTS TO MAKE SURE ONLY	RWJ2	04/22/02
C	CHEMISTRY GETS THIS PRODUCT.	RWJ2	04/22/02

MESSAGE: CMMDS: PF4, H, D, M, Q, I, T, S, V, E1, E2, E3, PF7 OR PF8.

Lamar,

This is what I did with the warehouse  
So only chemistry can obtain this item.  
You will need to have a stockcode number  
For LGS generated.

Hope this helps.

APPROVED

### CML Product Information Sheet

ACTIVE  
Page 1  
1100-307

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Product POLYFLOC AP1120  
Manufacturer BETZ LABORATORIES, INC.  
4636 SOMERTON ROAD  
TREVOSE PA 19053-  
(215)355-3300 (800)877-1940  
Classification I (Blue) Coversheet Rev. Date: 04/22/2002  
Database Add Date: 03/17/1998  
Product Comments Avoid strong oxidizers. NEW PRODUCT 3/17/98 KCA -LGS. Changed Class Usage from V to I as per PB chemistry on 04/22/02 BTW, See AR # 1365743, newer revised MSDS date.  
Product Category SYSTEM ADDITIVES, ANTIFREEZE, CORROSION INHIBITORS, RESINS  
Product Label 1100-307  
Storeroom Code 116-17911  
Storage Zone GENERAL

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Hazard Codes: Health> 1 Flammability> 1 Reactivity> 1 MSDS Date: 09/12/2000

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#### Hazardous Ingredients List (Section 2 of the MSDS)

Ingredient	CAS #	%Min	%Max
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#### Hazardous Category Codes

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**FOR INFORMATION ONLY. COMPLETE INFORMATION SHOULD BE OBTAINED FROM THE MSDS.**  
In case of conflicting information, notify Radwaste/Environmental Group and follow the MSDS.

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\*\*\* End of Report \*\*\*

Controlled Materials Program (CMP)

Effective Date

PORC	NO
SQR	YES
NQA	NO
50.59	NO
Resp. Mgr.	YES

CONTROLLED MATERIAL USE CLASSIFICATION REQUEST

One-Time Exemption  <sup>BTW</sup>

Permanent

Revision

Re-evaluation

CMP# 1100-0307

Received Date (By Chemical/Hazmat Coordinator ): \_\_\_\_\_

SECTION A

TO BE COMPLETED BY THE MATERIAL REQUESTER

Product Location: \_\_\_\_\_ Date Requested: 4-12-02 Date Needed: 4-16-02 <sup>BTW 4-22-02</sup>

Inventory Parts Catalogue No. (IPC#): 116-17911 Requested Expiration Date: \_\_\_\_\_

Material Safety Data Sheet (MSDS) Date: 9-12-2000

Product Name: Polyfloc API120

Manufacturer: Betz Dearborn, Division of Hercules Inc.

Mfg. Address: 4636 Somerton Rd, Trevose, PA 19053

Mfg. Phone: 215-355-3300 Emergency Phone: 800-877-1940

Planned Use/Material Type: Radwaste Phase Separator

System/Equipment: \_\_\_\_\_

Usage Amount: \_\_\_\_\_ Critical Systems ( Y/N/NA ): \_\_\_\_\_

Requester/Section Name: Michelle Magness Requester's Phone: 4532

Mail Code: PS-21 Vendor Required ( Y/N ): \_\_\_\_\_

New Product Justification: (USE AS A CLASS T)

SECTION B

TO BE COMPLETED BY CMP MANAGEMENT

Health Rating: 2 <sup>mum</sup> Flammability Rating: 1 Reactivity Rating: 1 <sup>mum</sup>

Storage:  
General  Acid \_\_\_\_\_ Reactive/Oxidizer \_\_\_\_\_ Compressed Gas \_\_\_\_\_  
Flammable \_\_\_\_\_ Base \_\_\_\_\_ Combustible Liquid \_\_\_\_\_

Health Hazard (Y/N): N Disposal Restricted (Y/N): N Material Category: 1160

Incompatibilities With: (check one)  
1-Acids \_\_\_\_\_ 2-Bases \_\_\_\_\_ 3-Flammables \_\_\_\_\_ 4-Oxidizers \_\_\_\_\_ 9-All other materials \_\_\_\_\_

Material Approved (Y/N) YES Reviewer: B.T. Wang Date: \_\_\_\_\_

SECTION C

TO BE COMPLETED BY SITE CHEMISTRY/Chemical/Hazmat Coordinator

Controlled Material Classification: (I-V) D Chemistry Approval (Y/N): Y

Reviewer: [Signature] W.S. Swift Reviewed Date: 04/19/02

Reviewer Comments & Hazard Codes: \_\_\_\_\_

Disapproval Comments: \_\_\_\_\_

ONE-TIME EXEMPTIONS

Expiration Date: 4-16-02 <sup>BTW 4-22-02</sup>  
Comments: \_\_\_\_\_

Exemption Expiration Notification Closure: \_\_\_\_\_ Date: \_\_\_\_\_



ISSUE DATE: 12-SEP-2000

### MATERIAL SAFETY DATA SHEET

BetzDearborn, Division of Hercules Incorporated  
4636 Somerton Road  
Trevose, PA 19053  
Business telephone: (215) 355-3300

**HMIS RATINGS**  
(See Section 16 for additional information)  
HEALTH: 0  
FLAMMABILITY: 1  
REACTIVITY: 0

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

## 1 PRODUCT IDENTIFICATION

PRODUCT NAME:

**POLYFLOC AP1120**

PRODUCT APPLICATION AREA:

**FLOCCULANT.**

## 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.

## 3 HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW

**CAUTION**

Non-hazardous to skin. Potential eye irritant due to mechanical action only. Dusts may cause irritation to the upper respiratory tract.

DOT hazard is not applicable  
Emergency Response Guide is not applicable  
Odor: None; Appearance: Off-White, Powder

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:

Non-hazardous to skin.

ACUTE EYE EFFECTS:

Potential eye irritant due to mechanical action only.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;Dusts may cause irritation to the upper respiratory tract.

INGESTION EFFECTS:

No evidence of adverse effects from available information.

TARGET ORGANS:

No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:

Not known.

SYMPTOMS OF EXPOSURE:

Nuisance dust.

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

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)

## 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.

## 7 HANDLING & STORAGE

### HANDLING:

Normal chemical handling.

### STORAGE:

Keep containers closed when not in use. Keep dry. Store away from oxidizers.

## 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:

rubber gloves-- Wash off after each use. Replace as necessary.

### EYE PROTECTION:

safety glasses

## 9 PHYSICAL & CHEMICAL PROPERTIES

Density	40.000 lb/cu.	Vapor Pressure (mmHG)	< 0.1
Freeze Point (F)	NA	Vapor Density (air=1)	< 1.00
Freeze Point (C)	NA		
Viscosity(cps 70F,21C)	NA	% Solubility (water)	1.0

Odor	None
Appearance	Off-White
Physical State	Powder
Flash Point	P-M(CC) > 200F > 93C
pH 0.5% Sol. (approx.)	7.0
Evaporation Rate (Ether=1)	< 1.00

NA = not applicable      ND = not determined

## 10 STABILITY & 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"

## 11 TOXICOLOGICAL INFORMATION

Oral LD50 RAT: >2,000 mg/kg  
Dermal LD50 RABBIT: >2,000 mg/kg  
NOTE - Estimated value

## 12 ECOLOGICAL INFORMATION

### AQUATIC TOXICOLOGY

Bluegill Sunfish 96 Hour Static Screen  
0% Mortality= 300 mg/L  
Ceriodaphnia 7 Day Chronic Bioassay  
No Effect Level= 10 mg/L  
Daphnia magna 48 Hour Static Acute Bioassay  
LC50= 2975; No Effect Level= 315 mg/L  
Fathead Minnow 96 Hour Static Acute Bioassay  
LC50= 810; 5% Mortality= 315 mg/L  
Rainbow Trout 72 Hour Static Screen  
0% Mortality= 100 mg/L

### BIODEGRADATION

BOD-28 (mg/g): 24  
BOD-5 (mg/g): 2  
COD (mg/g): 400  
TOC (mg/g): 240

## 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.

## 14 TRANSPORT INFORMATION

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



PEACH BOTTOM ----- INVENTORY PARTS CATALOG -----PAGE 4 OF :  
COMMAND INPUT===> \_\_\_\_\_ DISPLAY MOI

STOCK CODE : 116 17911 STS/LAST UPDT : READY\_ 04/22/02 RWJ2  
PURCHASE CL: 5 DATE CANCELLED: \_\_\_\_\_ POOLED INV MGT: \_ COMPONENT FLAG: N  
DESCRIPTION: FLOCCULENT, POLYFLOC AP1120, \_ 50 LB. BAG \_\_\_\_\_

USED FOR : LATER \_\_\_\_\_

===== EXTENDED DESCRIPTION =====

DESCRIPTION	ID	DATE

===== FREEFORM COMMENTS =====

P	COMMENTS	ID	DATE
C	<del>RWJ2 CHANGED UOK FROM "PC" TO "BG" AT 13:41:57 04/19/02</del>	PIMS	04/19/02
C	<del>REMOVED ECR #</del>	RWJ2	04/19/02
W	ISSUE ONLY TO CHEMISTRY DEPT	RWJ2	04/22/02
T	ISSUE ONLY TO CHEMISTRY DEPT	RWJ2	04/22/02
C	*** TURN W/O FLAG TO "N" AND ISSUE FLAG TO "N" AFTER EVERY	RWJ2	04/22/02
C	ORDER AND ISSUE, BRUCE WARGO WANTS TO MAKE SURE ONLY	RWJ2	04/22/02
C	CHEMISTRY GETS THIS PRODUCT.	RWJ2	04/22/02

MESSAGE: POSITION CURSOR WITHIN AREA THAT YOU WISH TO SCROLL