

The BFGoodrich Company
Specialty Polymers &
Chemicals Division
9911 Brecksville Road
Cleveland, Ohio 44141-3247
216-447-5000

May 25, 1993

Rebecca Colino
Additives Toxicology Group
NSF International (NSF)
P.O. Box 130140
Ann Arbor, MI 48113-0140

Dear Ms. Colino:

Enclosed please find a completed TDRS-B form for Geon Resin 110X500.

The composition of Geon Resin 110X500 is confidential to BFGoodrich and therefore subject to the generic secrecy agreement signed by BFGoodrich and the National Sanitation International, October 24, 1979.

Sincerely,

THE BFGOODRICH COMPANY

Connie N. Dillon/jk
Connie N. Dillon
Regulatory and Data System Specialist

CND/jp

Enclosure

21709001

bcc: J. C. Kelley/Doug Wetzig - CL-OTM-2

BFG16184

The BFGoodrich Company
Specialty Polymers &
Chemicals Division
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216-447-5000

May 25, 1993

Rebecca Colino
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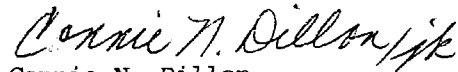
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The composition of Geon Resin 110X500 is confidential to BFGoodrich and therefore subject to the generic secrecy agreement signed by BFGoodrich and the National Sanitation International, October 24, 1979.

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Connie N. Dillon
Regulatory and Data System Specialist

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Enclosure

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21709002

Initial if NSF
Std. 60/61-Listed

NSF USE ONLY []
Document Control Code: IA02471-005
Supplier Co. No. I0810
Accepted By _____

TOXICOLOGY DATA REVIEW SUBMISSION - FORM B
NSF International (NSF)
STANDARD 60/61: DRINKING WATER SYSTEM COMPONENTS
(CONFIDENTIAL INFORMATION)

FOR ASSISTANCE: 1-800-252-6010
From 9am to 4pm Eastern Time

TO BE COMPLETED BY INGREDIENT SUPPLIER, unless the ingredient is currently Certified under NSF Standard 60 or 61 or has preliminary acceptance by NSF. (See Instructions Before Completing).
Please return form within 30 days or call for assistance.

I. IDENTIFICATION INFORMATION

Company name B.F. GOODRICH / The Geon Co. Company contact Joseph Kelley, Jr.
Address 6100 Oak Tree Blvd. Telephone Number (216) 447-6567
Cleveland, Ohio 44131 FAX Number (216) 447-6262
Plant name _____ Plant contact _____
Address _____ Telephone Number () _____
FAX Number () _____

1. Name of chemical or material (use acceptable chemical nomenclature) _____
2. Trade Designation GEON 110X500
Please specify other names under which you market this product PVC 110X500
3. Structural formula, if applicable (Note: $C_7H_{12}O_4$ is NOT structural) _____
4. Chemical Abstracts Services (CAS) number (if applicable) 9002-86-2

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III. PRODUCTION AND CHEMICAL INFORMATION

1. Is the product ___ manufactured or ___ mined?

a. If mined, is it purified? YES ___ NO ___

If YES, how? _____

Is it ground or mixed to a homogeneous mixture YES ___ NO ___

b. If manufactured or synthesized, provide the following:

Please provide separate attachments as necessary.

Manufactured:

1. Process description _____

2. Literature and/or patent reference for synthesis method _____

Synthesized:

1. Recognized name of synthesis: _____

2. Literature and/or patent reference for synthesis method: _____

3. Purification procedure _____

4. Provide the analytical procedure for the analysis of your product. Provide either a literature reference or a written procedure _____

5. Molecular weight (molecular weight distribution for polymers) _____

6. Itemize the reaction products of initiators, stabilizers, and catalysts used in the manufacture or synthesis of your product. _____

c. ___ Product is handled/bagged by a single use (dedicated) system.

___ Product is handled/bagged by a multiple use (non-dedicated) system.

If multiple products are handled, show other products handled by the system: _____

2. What is the specified purity range (if applicable)? _____

3. Itemize below, known or suspected impurities in the product including, but not limited to, unreacted starting materials, by-products, low molecular weight polymers, etc. If available, provide literature reference(s) or written procedure(s) for the identification of impurities in your product and starting materials.

Chemical Name	CAS #	Analytical Method
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

BFG16187

3. A toxicology literature search provided by your company may expedite the toxicology review and minimize costs to the applicant for obtaining toxicology data. For each literature search appended to this form, itemize as described below:

Database	_____	_____	_____
File #	_____	_____	_____
Keywords	_____	_____	_____
Date	_____	_____	_____

____ (Check if no literature search has been, or will be, conducted by your Company.)

VI. ATTACHMENTS AND SIGNATURE

List Attachments to this form	_____	No. of pages	_____
	_____		_____
	_____		_____

I hereby certify that the information provided is accurate and complete, and that I, and the Company I represent, know of no reason the product described herein should not be used in the Applicant's product which is used in contact with drinking water.

X Signature Connie N. Dillon Date 05/26/93
Typed or printed name Connie N. Dillon
Position/Title Regulatory and Data System Specialist
Company The BFGoodrich Company/The Goon Company
Phone 216/447-5182 Telex _____ FAX 216/447-5710

The following authorization is OPTIONAL. It in no way authorizes NSF to share the information with other Applicants. Authorized NSF staff ONLY will be allowed access to this information. By completing this authorization, this Form B may be used to support the referenced ingredient/material/product as part of another applicant's package.

I give NSF permission to use the information contained in this TDRS Form B as a basis for reviewing/accepting other products which use the referenced ingredient/material/product covered by this form.

Optional Authorization _____

WHERE TO MAIL? Insert the completed form in an envelope marked "CONFIDENTIAL BUSINESS INFORMATION," seal in an outer envelope, and return to:

VIA U.S. MAIL:

Additives Toxicology Group
NSF International (NSF)
PO Box 130140
Ann Arbor, MI 48113-0140

VIA COURIER SERVICE:

Additives Toxicology Group
NSF International (NSF)
3475 Plymouth Road
Ann Arbor, MI 48105

BFG16188

21705005

Permission to Use TDRS Form Information For Multiple Applicants

To be completed when a TDRS form for a particular product has previously been submitted to NSF International (NSF) and that information is authorized for use with other applicant(s).

Dear NSF:

Our company, _____, previously submitted a TDRS form for our product _____ under the Document Control Code (found in the upper right hand corner of the original submission): _____.

Permission for NSF to use the above-referenced TDRS form, accompanying information, and appended toxicology data is now given for the following applicant(s) to the NSF's Drinking Water Additives Program.

_____ All applicants

_____ Only the following company

Company Name: _____

Document Control Code (found in the upper right hand corner of the requested submission): _____

I understand that the files will remain confidential and closed to all, but NSF authorized personnel, according to NSF Confidential Information Security Procedures.

Name _____

Signature* _____

Company (Ingredient Supplier) _____

Telephone Number _____ Date _____

***Signature must be notarized:**

Subscribed and sworn to before
me this _____ day
of _____, 19____.

Notary Public

My Commission Expires: _____

BFG16189

21709006



SPECIAL PURI

General Description
 Type
 Polymerization Process
 Appearance

Polyvinyl Chloride Hom
 Suspension
 White, free flowing pow

Features & Uses

This resin is especially designed for application requiring low gels and contamination.

- Blood bags
- Clear film & sheet
- Clear medical or food grade tubing
- Molded medical devices
- Extra low extractables for critical medical applications

Typical Properties

ASTM Classification	GP-5-15353
Specific Gravity	1.4
Inherent Viscosity	1.06
Specific Viscosity	1.47
Relative Viscosity	2.47
"K" Value	72
Heat Loss, % (maximum)	0.3
Particle Size	
% thru 40 mesh	100
% thru 200 mesh	3
Flow Time	18
Apparent Bulk Density g/cc	.48
Pounds/Cubic Ft.	30
Powder Mix Time	260
Fisheyes	1", 1"
Contamination Syntrol	2/0
Clarity	Excellent
Porosity	
cc/gram	.37

Test Procedures

ASTM-D-1243
1% Cyclohexanone @ 30°C
1% Cyclohexanone @ 30°C
1% Cyclohexanone @ 30°C
BFG 793-F
BFG 812-G
BFG 692-E
ASTM-1895
BFG 488-H
BFG 1233T
HOM-1-12-2
BFG 1094A

BFG16190

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The BFGoodrich Company, Geon Vinyl Division/6100 Oak Tree Blvd., Cleveland, Ohio 44131

BFGoodrich
Geon Vinyl Division

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72/09007

Connie
 Would you fill
 this out. This
 is A Resin.
 THANKS, 6527
 Doug 1886
 8129
 X 7738 (8015)



SPECIAL PURPOSE RESIN

General Description

Type	Polyvinyl Chloride Homopolymer Resin
Polymerization Process	Suspension
Appearance	White, free flowing powder

Features & Uses

This resin is especially designed for applications requiring low gels and contamination.

- Blood bags
- Clear film & sheet
- Clear medical or food grade tubing
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Inherent Viscosity	1.06
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Relative Viscosity	2.47
"K" Value	72
Heat Loss, % (maximum)	0.3
Particle Size	
% thru 40 mesh	100
% thru 200 mesh	3
Flow Time	18
Apparent Bulk Density, g/cc	.48
Pounds/Cubic Ft.	30
Powder Mix Time	260
Fisheyes	1", 1"
Contamination Syntrol	210
Clarity	Excellent
Porosity	
cc/gram	.37

Test Procedures

ASTM-D-1243
1% Cyclohexanone @ 30°C
1% Cyclohexanone @ 30°C
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BFG 793-F
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ASTM-1895
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BFG16191

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BFGoodrich
Geon Vinyl Division

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SPECIAL PURPOSE RESIN

General Description

Type	Polyvinyl Chloride Homopolymer Resin
Polymerization Process	Suspension
Appearance	White, free flowing powder

Features & Uses

This resin is designed for applications requiring good physical properties.

- Wire and cable applications
- General flexible compounds
- Calendering

Typical Properties

ASTM Classification	GP-S-15353
Specific Gravity	1.4
Inherent Viscosity	1.06
Specific Viscosity	1.47
Relative Viscosity	2.47
"K" Value	72
Heat Loss, % (maximum)	0.3
Particle Size	
% thru 40 mesh	100
% thru 200 mesh	3
Flow Time	18
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Pounds/Cubic Ft.	30
Powder Mix Time	260
Porosity cc/gram	.37

Test Procedures

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1% Cyclohexanone @ 30°C
1% Cyclohexanone @ 30°C
1% Cyclohexanone @ 30°C
BFG 793-F
BFG 812-G
BFG 692-E
ASTM-1895
BFG 488-H
BFG 1094A

BFG16192

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Geon® 110x500 GP

SPECIAL PURPOSE RESIN

General Description

Type	Polyvinyl Chloride Homopolymer Resin
Polymerization Process	Suspension
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BFG 812-G
BFG 692-E
ASTM-1895
BFG 488-H
BFG-1094A

BFG16193

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21709010

ROUTE TO: BATH COMPUTER ROOM

* LAPORTE TECHNICAL DOCUMENT *

R103360

LAPORTE RECIPE

10/15/91 13:53:5

GEON RESIN 110X500

LOC: 80 DEPT: E120

ISSUE: S91

COMMODITY NO.: 00110 500 0000

EFFECTIVE DATE: 01/01/91

SBC NBR: 111B

DELETE FLAG: NO

LAB REF:

CMPR:

BASED ON:

APPLICATION:

PARTS	INGREDIENTS	SEQ	LOC	PERCENT
100.40080	968 000094 06611 E00	010		99.790
.05771	957 710502 KLUCEL J	020		.057
.06833	953 709160 PVA, 72.5%	030		.068
.08547	953 709395 LUPERSOL 10M75	040		.085
100.61232		TOTAL		100.000

TYPE SAMPLE:

MATCHED TO:

ISSUED:

MARKETING APPROVAL:

Prin. Sample

BFG16194

21709011

ROUTE TO: BATH COMPUTER ROOM

* LAPORTE TECHNICAL DOCUMENT *

R103360

LAPORTE RECIPE

10/15/91 13:53:51

GEON RESIN 110X500

LOC: 80 DEPT: E120

ISSUE: S91

COMMODITY NO.: 00110 500 0000

EFFECTIVE DATE: 01/01/91

SBC NBR: 111B

DELETE FLAG: NO

LAB REF:

CMPR:

BASED ON:

APPLICATION:

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100.61232		TOTAL		100.000

TYPE SAMPLE:

MATCHED TO:

ISSUED:

MARKETING APPROVAL:

Prin San Lin

BFG16195

21709011