BFGoodrich

AN 4499

The BFGoodrich Company
3925 Embassy Parkway
Akron, Ohio 44313-1799

August 30, 1990

Toxicological Services
National Sanitation Foundation
P.O. Box 1468
Ann Arbor, Michigan 48106

Dear Gentlereader:

I am enclosing completed Material Formulation Confidential Report forms for the following Geon(R) compounds for various users:

87407-000-0078
87431 Blue 440
87322 Grey 260
85796 White 124
875333 Trans 006
8761-273

The composition of the above Geon compounds is confidential to BFGoodrich and therefore subject to the generic secrecy agreement signed by the BFGoodrich Company and the National Sanitation Foundation, October 24, 1979.

Sincerely,

THE BFGOODRICH COMPANY

W. C. Bachtel

W. C. Bachtel
Toxicologist
Environment, Health and
Safety Management Systems

0830-1/jp

cc: J. C. Kelley - CL-OTM-3

20874001

BFG07617

NATIONAL SANITATION FOUNDATION
MATERIAL FORMULATION CONFIDENTIAL REPORT

Document Control Code FM00146-001 Company Number 20080 Standard Number 51
Regional Office 02 Issue Date 07/17/90 CBI Code 03343
Regional Representative J. ARMBRUSTER
* * * D O N O T D U P L I C A T E * * *

I. PROGRAM PARTICIPANT

B F GOODRICH Plant At: AKRON, OH 44313
MR. W. C. BACHTEL
3925 EMBASSY PARKWAY
AKRON, OH 44313

II. SUPPLIER

Basic Material Supplier	B.F. GOODRICH, GEON VINYL DIV	[ ] Natural
Material Type	PVC	[X] Precolored: X -
Complete Formulation Id	GEON 87533 TRANS 006	[ ] See Form: _____

III. TYPE OF FOOD CONTACT (Check all that apply)

[ ] Dry Solids
[ ] Aqueous
[ ] Acidic (pH < or = 5.0)
[ ] Dairy Products
[ ] Oil
[ ] Beverages > 0, but < or = 8% alcohol
[ ] Beverages > 8% alcohol
[ ] Splash Zone

IV. TEMPERATURE (Check one)

[ ] < or = 45'F [ ] > 45'F to 100'F [ ] > 100'F to 180'F
[ ] > 180'F to 212'F [ ] >212'F (specify maximum _____ 'F)

V. FORMULATION REVIEW NON-ACCEPTANCE.

We are unable to accept this component of your equipment because:

The formulation information provided by the supplier is not sufficient to permit complete review.
An appropriate section of the U.S. Code of Federal Regulations, Title 21 (Food and Drugs) is not cited for each ingredient. Specific Title 21 citations are generally required for a food zone material.

Section III PART(S). Please provide the following information:
The type of contact the material is expected to have.
The temperature (range) the material is exposed to.

Section V. Please provide complete disclosure of the ingredients used (by chemical name).

Please resubmit on the enclosed form.

G BALL
Toxicology Services

20874002

BFG07618

NATIONAL SANITATION FOUNDATION
MATERIAL FORMULATION CONFIDENTIAL REPORT

Document Control Code FM00146-001 Company Number 20080 Standard Number 51
Regional Office 02 Issue Date 07/17/90 CBI Code _____
R E S U B M I T T A L
* * * D O N O T D U P L I C A T E * * *

I. PROGRAM PARTICIPANT

B F GOODRICH
MR. W. C. BACHTEL
3925 EMBASSY PARKWAY
AKRON, OH 44313

Plant At: All Geon plants

II. SUPPLIER

Basic Material Supplier	B.F. GOODRICH, GEON VINYL DIV	[ ] Natural
Material Type	PVC	[ ] Precolored: _____
Complete Formulation Id	GEON 87533 TRANS 006	[ ] See Form: _____

III. TYPE OF FOOD CONTACT (Check all that apply)

[ ] Dry Solids
[ ] Aqueous
[ ] Acidic (pH < or = 5.0)
[ ] Dairy Products
[ ] Oil
[ ] Beverages > 0, but < or = 8% alcohol
[ ] Beverages > 8% alcohol
[ ] Splash Zone

IV. TEMPERATURE (Check one)

[ ] < or = 45'F [ ] > 45'F to 100'F [ ] > 100'F to 180'F
[ ] > 180'F to 212'F [ ] >212'F (specify maximum _____ 'F)

V. COMPOSITION OF FORMULATION AND PERTINENT DATA - USE REVERSE SIDE.
To Be Completed By Basic Material/Pigment Supplier.

VI. CERTIFICATION

It is herein certified that this material is intended for the specific end use application(s). It is further certified that the information provided is accurate and complete and, in the case of materials intended for food zone application the material meets the requirements of the Federal Food, Drug, and Cosmetic Act as amended.

BASIC MATERIAL SUPPLIER

Company BFGoodrich Company - Geon Vinyl Division
Signature J. C. Kelley W. C. Bachtel for J. C. K.
Title Technical Service Manager
Address 6100 Oak Tree Blvd. Cleveland, OH 44131
Telephone (216) 447-6000 FAX (216) 447-6392
Date August 30, 1990

Seal in the BLUE envelope provided, insert in an outer envelope and MAIL TO:

Toxicology Services
National Sanitation Foundation
P.O. Box 1468
Ann Arbor, MI 48106

20874003

BFG07619

V. COMPOSITION OF FORMULATION AND PERTINENT DATA

Chemical Description of Ingredient (Do NOT Use Trade Names)	Parts by Weight	Supplier	Section of the U.S. Code of Federal Regulations (21 CFR)* under which accepted.
Please verify the material type/color and formulation identification referenced in Section IV on the reverse.			
Geon 87533 Trans 006			
Polyvinyl chloride	100.0	BFGoodrich	
Methylmethacrylate butadiene styrene	1.2 - 14.5	Rohm & Haas	178.3790
Acrylonitrile butadiene styrene	1.4 - 2.2	Akzo Chemie-America	178.3790, 177.1010, 177.1020
Methylmethacrylate butyl methacrylate butylacrylate	0.8 - 1.3	Rohm & Haas	178.3790
Di(n-octyl)tin 3,5'bis (isooctyl)mercapto acetate	2.0 - 2.4	Atochem	178.2650
Mono and diglycerides	0.6 - 0.8	Lonza Inc.	184.1505, 182.0
Pentaerythritol adipate stearate	0.2 - 0.4	Henkel	178.3690
Oxidized polyethylene	0.1 - 0.3	Allied	177.1620
Stearic Acid	0.0 - 0.2	Henkel Witco	184.1090
Ultramarine Violet	0.0 - 0.05	Whitaker Clark & Daniels	178.3970
Blue Pigment*	0.0 - 0.16	BFGoodrich	
*Polyvinyl chloride	92.0	BFGoodrich	Prior Sanctioned
Epoxidized Linseed oil	3.0	American Chemical Serv. Inc.	Prior Sanctioned
Ultramarine Blue	5.0	Whitaker Clark & Daniels	178.3970

PLEASE PROVIDE SIGNATURE/CERTIFICATION ON REVERSE SIDE.

2087400

* Available from the Superintendent of Documents, U. S. Government, Printing Office, Washington, D.C. 20402 (202-783-3238) or your local U. S. Government Printing Office outlet.

Title 21 (Food and Drugs), Parts 1-99: General information and color additives (direct).

Title 21 (Food and Drugs), Parts 170-199: Direct and indirect food additives, including ingredients for use in food contact materials.

BFG07620

NATIONAL SANITATION FOUNDATION
MATERIAL FORMULATION CONFIDENTIAL REPORT

Document Control Code SW00314-001 Company Number 21600 Standard Number 50
Regional Office 03 Issue Date 07/06/90 CBI Code _____
Regional Representative NSWARTLEY
*** DO NOT DUPLICATE ***

I. PROGRAM PARTICIPANT

HAYWARD POOL PRODUCTS INC
MR. SAMUEL TOBIAS
900 FAIRMOUNT AVENUE
PO BOX 18
ELIZABETH, NJ 07207

Plant At: ELIZABETH, NJ 07207

II. MODEL(S)
Equipment Model Number(s) SP740DE
Description of Equipment MULTIPORT VALVE

III. PART(S)
Description of Part(s) VALVE BODY AND COVER
Part Number(s) SP740A AND SP740B
Fabricated by HAYWARD
Surface Area of Part(s) (sq. in.) 480 Contact Area (sq. in.) 220
Part is [X] Pool Water Contact
Temperature (Range) Part(s) Exposed to 40-100 °F

IV. SUPPLIER
Basic Material Supplier B.F. GOODRICH [ ] Natural
Material Type PVC WHITE [ ] Precolored
Complete Formulation Id 26796 White 124 [X] See Form

V. COMPOSITION OF FORMULATION AND PERTINENT DATA - USE REVERSE SIDE
To Be Completed By Basic Material/Pigment Supplier.
*** NOTE: 21 CFR citation or other documentation required. ***

VI. CERTIFICATION
It is herein certified that this material is intended for the specific end use application. It is further certified that the information provided is accurate and complete and, that I, and the company I represent, know of no reason this material should not be used in pool/spa/hot tub water contact.

BASIC MATERIAL SUPPLIER

Company B.F. Goodrich
Signature M C Kelly
Title Technical Service Mgr
Address 6100 Oak Tree Blvd, Cleveland Ohio 44131
Telephone 216-447-4567 FAX 216-447-6609
Date 7/23

Seal in the BLUE envelope provided, insert in an outer envelope and MAIL TO:

Toxicological Services
National Sanitation Foundation
P.O. Box 1468
Ann Arbor, MI 48106

BFG07621

20874005

V. COMPOSITION OF FORMULATION AND PERTINENT DATA

Chemical Description of Ingredient (Do NOT Use Trade Names)	Parts by Weight	Supplier	Section of the U.S. Code of Federal Regulations (21 CFR)* under which accepted.
Please verify the material type/color and formulation identification referenced in Section IV on the reverse.			
Geon 85796 White 124			
Polyvinyl chloride	100.00	BFGoodrich	Prior Sanctioned
Styrene acrylonitrile	3.00	BFGoodrich	181.32 [illegible].22
Di(n-butyl)tin bisisoctyl mercaptoacetate	1.5	Akzo Chemie-American	NSF - Std. [illegible]
Calcium carbonate	5.0	Pfizer	182.5191 184.1191
Titanium dioxide	2.0	E.I. DuPont	180.30 177.2600
Calcium stearate	1.5	Synthetic Products Norak Corp. Inc. Mallinkrodt Witco	178.2010
Mineral oil	2.0	Penreco Witco	[illegible].3620
Pigment M.B.*	0.03	BFGoodrich	
*Polyvinyl chloride	68	BFGoodrich	Prior Sanctioned
Calcium carbonate	31	Pfizer	182.5191 184.1191
Carbon black	1	Columbian Chemicals	177.2600

PLEASE PROVIDE SIGNATURE/CERTIFICATION ON REVERSE SIDE.

* Available from the Superintendent of Documents, U. S. Government, Printing Office, Washington, D.C. 20402 (202-783-3238) or your local U. S. Government Printing Office outlet.

Title 21 (Food and Drugs), Parts 1-99: General information and color additives (direct).

Title 21 (Food and Drugs), Parts 170-199: Direct and indirect food additives, including ingredients for use in food contact materials.

BFG07622

CONFIDENTIAL

2087406

NATIONAL SANITATION FOUNDATION
MATERIAL FORMULATION CONFIDENTIAL REPORT

Document Control Code SW00314-002 Company Number 21600 Standard Number 50
Regional Office 03 Issue Date 07/06/90 CBI Code _____
Regional Representative NSWARTLEY
*** DO NOT DUPLICATE ***

I. PROGRAM PARTICIPANT

HAYWARD POOL PRODUCTS INC Plant At: ELIZABETH, NJ 07207
MR. SAMUEL TOBIAS
900 FAIRMOUNT AVENUE
PO BOX 18
ELIZABETH, NJ 07207

II. MODEL(S)
Equipment Model Number(s) SP740DE
Description of Equipment MULTIPORT VALVE

III. PART(S)
Description of Part(s) VALVE BODY AND COVER
Part Number(s) SP740A AND SP740B
Fabricated by HAYWARD
Surface Area of Part(s) (sq. in.) 480 Contact Area (sq. in.) 220
Part is [X] Pool Water Contact
Temperature (Range) Part(s) Exposed to 40-100 °F

IV. SUPPLIER
Basic Material Supplier B.F. GOODRICH [ ] Natural
Material Type White [ ] Precolored
Complete Formulation Id Geon 35796 White 124 [ ] See Form

V. COMPOSITION OF FORMULATION AND PERTINENT DATA - USE REVERSE SIDE.
To Be Completed By Basic Material/Pigment Supplier.
*** NOTE: 21 CFR citation or other documentation required. ***

VI. CERTIFICATION
It is herein certified that this material is intended for the specific end use application. It is further certified that the information provided is accurate and complete and, that I, and the company I represent, know of no reason this material should not be used in pool/spa/hot tub water contact.

BASIC MATERIAL SUPPLIER
Company B F Goodrich
Signature [signature]
Title Tech. Serv. Mgr.
Address 6100 Oakwood Blvd. Cleveland Ohio 44139
Telephone (216) 447-6000 FAX (216) 447-6000
Date August 30, 1990

Seal in the BLUE envelope provided, insert in an outer envelope and MAIL TO:

Toxicological Services
National Sanitation Foundation
P.O. Box 1468
Ann Arbor, MI 48106

BFG07623

20874007

V. COMPOSITION OF FORMULATION AND PERTINENT DATA

Chemical Description of Ingredient (Do NOT Use Trade Names)	Parts by Weight	Supplier	Section of the U.S. Code of Federal Regulations (21 CFR)* under which accepted.
Please verify the material type/color and formulation identification referenced in Section IV on the reverse.			
Geon 85796 White 124			
Polyvinyl chloride	100.00	BFGoodrich	Prior Sanctioned
Styrene acrylonitrile	3.00	BFGoodrich	181.32 180.22
Di(n-butyl)tin bisisoctyl mercaptoacetate	1.5	Akzo Chemie-American	NSF - Std. [illegible]
Calcium carbonate	5.0	Pfizer	182.5191 184.1191
Titanium dioxide	2.0	E.I. DuPont	180.30 177.2600
Calcium stearate	1.5	Synthetic Products Norak Co., Inc. Mallinkrodt Witco	178.2010
Mineral oil	2.0	Penreco Witco	178.3620
Pigment M.B.*	0.03	BFGoodrich	
*Polyvinyl chloride	68	BFGoodrich	Prior Sanctioned
Calcium carbonate	31	Pfizer	182.5191 184.1191
Carbon black	1	Columbian Chemicals	177.2600

PLEASE PROVIDE SIGNATURE/CERTIFICATION ON REVERSE SIDE.

* Available from the Superintendent of Documents, U. S. Government, Printing Office, Washington, D.C. 20402 (202-783-3238) or your local U. S. Government Printing Office outlet.

Title 21 (Food and Drugs), Parts 1-99: General information and color additives (direct).

Title 21 (Food and Drugs), Parts 170-199: Direct and indirect food additives, including ingredients for use in food contact materials.

UNCONTROLLED

2087400

NATIONAL SANITATION FOUNDATION
MATERIAL FORMULATION CONFIDENTIAL REPORT

Document Control Code SW00146-001 Company Number 24300 Standard Number 50
Regional Office 04 Issue Date 06/21/90 CBI Code _____
Regional Representative MDF
*** DO NOT DUPLICATE ***

I. PROGRAM PARTICIPANT

JACUZZI BROTHERS DIVISION Plant At: LITTLE ROCK, AR 72219-8903
MR. JEFF ROUSSEL
12401 INTERSTATE-30
PO BOX 8903
LITTLE ROCK, AR 72219-8903

II. MODEL(S)
Equipment Model Number(s) MFM AND ST SERIES
Description of Equipment SAND FILTERS

III. PART(S)
Description of Part(s) DRAIN BUSHING & FILL PLUG AND PORT ADAPTER
Part Number(s)
Fabricated by JACUZZI BROTHERS
Surface Area of Part(s) (sq. in.) 30 Contact Area (sq. in.) 15
Part is [X] Pool Water Contact
Temperature (Range) Part(s) Exposed to 32-104 °F

IV. SUPPLIER
Basic Material Supplier B.F. GOODRICH [ ] Natural
Material Type PVC/CLEAR [X] Precolored:
Complete Formulation Id 87407-000-0078 [ ] See Form

V. COMPOSITION OF FORMULATION AND PERTINENT DATA - USE REVERSE SIDE.
To Be Completed By Basic Material/Pigment Supplier.
*** NOTE: 21 CFR citation or other documentation required. ***

VI. CERTIFICATION
It is herein certified that this material is intended for the specific end use application. It is further certified that the information provided is accurate and complete and, that I, and the company I represent, know of no reason this material should not be used in pool/spa/hot tub water contact.

BASIC MATERIAL SUPPLIER
Company B.F. Goodrich - Geon Vinyl Division
Signature J.C. Kelly
Title Technical Serv. Mgr.
Address 6100 Oak Tree Blvd Cleveland Ohio 44131
Telephone (216) 447-6000 FAX (216) 447-6392
Date August 30, 1990

Seal in the BLUE envelope provided, insert in an outer envelope and MAIL TO:

Toxicological Services
National Sanitation Foundation
P.O. Box 1468
Ann Arbor, MI 48106
Page (1)

BFG07625

20874009

V. COMPOSITION OF FORMULATION AND PERTINENT DATA

Chemical Description of Ingredient (Do NOT Use Trade Names)	Parts by Weight	Supplier	Section of the U.S. Code of Federal Regulations (21 CFR)* under which accepted.
Please verify the material type/color and formulation identification referenced in Section IV on the reverse.			
Geon 87407-000-0078			
Polyvinyl chloride	100.00	BFGoodrich	Prior Sanctioned
Methyl methacrylate butadiene styrene	12.0	Kaneka Texas Corp.	178.3790
Ethyl acrylate - methyl methacrylate	1.75	Rohm & Haas	178.3790
Dimethyl/monomethyltin isooctylmercaptoacetates	2.0	Argus Carstab	178.2010
Ultramarine Violet	0.051	Whitaker Clark & Daniels	178.3970
Polyhydric alcohol diesters of oxidatively refined Montan Wax acids	0.2	Hoechst Celanese	178.3770
Mono and diglycerides	1.13	Lonza	184.1505
Fatty acid esters	0.75	Lonza	Part 172
Colorant*	0.143	BFGoodrich	
*Polyvinyl chloride	92.0	BFGoodrich	Prior Sanctioned
Epoxidized lindseed oil	3.0	American Chemical Service	Prior Sanctioned
Ultramarine Blue	5.0	Whitaker Clark & Daniels	178.3970

PLEASE PROVIDE SIGNATURE/CERTIFICATION ON REVERSE SIDE.

* Available from the Superintendent of Documents, U. S. Government, Printing Office, Washington, D.C. 20402 (202-783-3238) or your local U. S. Government Printing Office outlet.

Title 21 (Food and Drugs), Parts 1-99: General information and color additives (direct).

Title 21 (Food and Drugs), Parts 170-199: Direct and indirect food additives, including ingredients for use in food contact materials.

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20874010

NATIONAL SANITATION FOUNDATION
MATERIAL FORMULATION CONFIDENTIAL REPORT

Document Control Code WT01279-002 Company Number 15071 Standard Number 58
Regional Office 02 Issue Date 07/31/90 CBI Code _____
Regional Representative JSA
* * * D O N O T D U P L I C A T E * * *

I. PROGRAM PARTICIPANT

ECOWATER SYSTEMS Plant At: WOODBURY, MN 55125
MR. MARLIN FRANK
ECOWATER CONSUMER PRODUCTS
1890 WOODLAWN DRIVE
PO BOX 64420
ST PAUL, MN 55164

II. MODEL(S)
Equipment Model Number(s) EWS-300
Description of Equipment RO System

III. PART(S)
Description of Part(s) Tank Valve
Part Number(s) B 7100429
Fabricated by Specialty Mfg. Co.
Surface Area of Part(s) (sq. in.) 3.0 Contact Area (sq. in.) 1.5

IV. SUPPLIER
Basic Material Supplier BF Goodrich [ ] Natural
Material Type PVC [X] Precolored: _____
Complete Formulation Id Geon 87431 Blue 440 [ ] See Form _____

V. COMPOSITION OF FORMULATION AND PERTINENT DATA - USE REVERSE SIDE.
To Be Completed By Basic Material/Pigment Supplier.

VI. CERTIFICATION (Check One. Use alternate only for non-FDA materials such as brass.)
[ ] It is herein certified that this material is intended for the specific end use application. It is further certified that the information provided is accurate and complete, and that the material meets the requirements of the Federal Food, Drug, and Cosmetic Act as amended.

[ ] It is herein certified that this material is intended for the specific end use application. It is further certified that the information provided is accurate and complete, and that I, and the company I represent, know of no reason this material should not be used in contact with drinking water.

BASIC MATERIAL SUPPLIER

Company BFGoodrich Company - Geon Vinyl Division
Signature J. C. Kelley M. Becket for J.C.K.
Title Technical Service Manager
Address 6100 Oak Tree Blvd. Cleveland, OH 44131
Telephone (216) 447-6000 FAX (216) 447-6392
Date August 30, 1990

Seal in the BLUE envelope provided, insert in an outer envelope and MAIL TO:

Toxicological Services
National Sanitation Foundation
P.O. Box 1468
Ann Arbor, MI 48106

BFG07627

20874011

BFG07628

COMPOSITION OF FORMULATION AND PERTINENT DATA

Chemical Description of Ingredient (Do NOT Use Trade Names)	Parts by Weight	Supplier	Section of the U.S. Code of Federal Regulations (21 CFR)* under which accepted.
Please verify the material type/color and formulation identification referenced in Section IV on the reverse.			
Geon 87431 Blue 440			
Polyvinyl chloride	100.0	BFGoodrich	Prior Sanctioned
Di(n-butyl)tin-bis isooctyl mercaptoacetates	3.2	M&T Argus	NSF Std. 14
Methylmethacrylate - butadiene styrene	3.0	Rohm & Haas	178.3790
Ethylacrylate - methyl-methacrylate	1.6	Rohm & Haas Zeon Chemical	178.3790
Titanium dioxide	2.0	E.I. DuPont	181.30 177.2600
Phthalocyanine Blue	0.25	BASF	175.300 177.2600
Paraffin Wax	0.5	Hoechst-Celanese Rheo Chem Mfg. Frank Ross Witco	175.300 177.260
Butyl stearate	1.3	Henkel	175.05, 175.320, 175.300 177.2600

PLEASE PROVIDE SIGNATURE/CERTIFICATION ON REVERSE SIDE.

* Available from the Superintendent of Documents, U. S. Government, Printing Office, Washington, D.C. 20402 (202-783-3238) or your local U. S. Government Printing Office outlet.

Title 21 (Food and Drugs), Parts 1-99: General information and color additives (direct).

Title 21 (Food and Drugs), Parts 170-199: Direct and indirect food additives, including ingredients for use in food contact materials.

20874012

NATIONAL SANITATION FOUNDATION
MATERIAL FORMULATION CONFIDENTIAL REPORT

Document Control Code WT01279-001 Company Number 15071 Standard Number 58
Regional Office 02 Issue Date 07/31/90 CBI Code _____
Regional Representative JSA
* * * D O N O T D U P L I C A T E * * *

I. PROGRAM PARTICIPANT

ECOWATER SYSTEMS
MR. MARLIN FRANK
ECOWATER CONSUMER PRODUCTS
1890 WOODLAWN DRIVE
PO BOX 64420
ST PAUL, MN 55164

Plant At: WOODBURY, MN 55125

II. MODEL(S)
Equipment Model Number(s) EWS-300
Description of Equipment RO System

III. PART(S)
Description of Part(s) Tank Valve
Part Number(s) B 7100429
Fabricated by Specialty Mfg. Co.
Surface Area of Part(s) (sq. in.) 3.0 Contact Area (sq. in.) 1.5

IV. SUPPLIER
Basic Material Supplier BF Goodrich [ ] Natural
Material Type PVC [X] Precolored: _____
Complete Formulation Id GEON 87322-260 - Grey [ ] See Form _____

V. COMPOSITION OF FORMULATION AND PERTINENT DATA - USE REVERSE SIDE.
To Be Completed By Basic Material/Pigment Supplier.

VI. CERTIFICATION (Check One. Use alternate only for non-FDA materials such as brass.)
[ ] It is herein certified that this material is intended for the specific end use application. It is further certified that the information provided is accurate and complete, and that the material meets the requirements of the Federal Food, Drug, and Cosmetic Act as amended.

[ ] It is herein certified that this material is intended for the specific end use application. It is further certified that the information provided is accurate and complete, and that I, and the company I represent, know of no reason this material should not be used in contact with drinking water.

BASIC MATERIAL SUPPLIER

Company BFGoodrich Company - Geon Vinyl Division
Signature J. C. Kelley By: Rachtel for JCK
Title Technical Service Manager
Address 6100 Oak Tree Blvd. Cleveland, OH 44131
Telephone (216) 447-6000 FAX (216) 447-6392
Date August 30, 1990

Seal in the BLUE envelope provided, insert in an outer envelope and MAIL TO:

Toxicological Services
National Sanitation Foundation
P.O. Box 1468
[illegible]

20874013

BFG07629

BFG07630

COMPOSITION OF FORMULATION AND PERTINENT DATA

Chemical Description of Ingredient (Do NOT Use Trade Names)	Parts by Weight	Supplier	Section of the U.S. Code of Federal Regulations (21 CFR)* under which accepted.
Please verify the material type/color and formulation identification referenced in Section IV on the reverse.			
Geon 87322-260 Grey			
Polyvinyl chloride	100.00	BFGoodrich	Prior Sanctioned
Acrylonitrile - butadiene styrene	13.0	G.E.	181.32 180.22
Acrylonitrile - styrene	3.0	BFGoodrich	181.32 180.22
Dimethyl/monomethyltin isooctylmercaptoacetates	1.5	Argus Carstab	178.2010
Titanium dioxide	2.0	E.I. Dupont	181.30 177.2600
Carbon black	0.09	Columbian Chemicals	177.2600
Calcium stearate	2.0	Synthetic Pdts. Norak Mallinkrodt Akzo Chemie-American	178.2010
N,N'Ethylene distearoyl-ethylene diamine	1.5	Carstab Lonza Witco Akzo Chemie-American	177.1210, 181.28

PLEASE PROVIDE SIGNATURE/CERTIFICATION ON REVERSE SIDE.

* Available from the Superintendent of Documents, U. S. Government, Printing Office, Washington, D.C. 20402 (202-783-3238) or your local U. S. Government Printing Office outlet.

Title 21 (Food and Drugs), Parts 1-99: General information and color additives (direct).

Title 21 (Food and Drugs), Parts 170-199: Direct and indirect food additives, including ingredients for use in food contact materials.

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NATIONAL SANITATION FOUNDATION
MATERIAL FORMULATION CONFIDENTIAL REPORT

Document Control Code FD01494-001 Company Number 32750 Standard Number 18
Regional Office 02 Issue Date 07/31/90 CBI Code _____
Regional Representative TA
*** DO NOT DUPLICATE ***

I. PROGRAM PARTICIPANT

MULTIPLEX COMPANY
MR. LARRY J. ROBERTS
250 OLD BALLWIN ROAD
BALLWIN, MO 63021

Plant At: BALLWIN, MO 63021

II. MODEL(S)
Equipment Model Number(s) 53,54,55,56
Description of Equipment Orange Juice Dispenser

III. PART(S)
Description of Part(s) Tube, OJ Plastic Tank dip, Tube, Valve Inlet Disconnect, OJ
Part Number(s) Plastic plastic tank (bag in box)212219,211370,211771
Fabricated by Multiplex
Surface Area of Part(s) (sq. in.) _____ Contact Area (sq. in.) 33.09
Surface is [X] Smooth
Part is [X] Food Zone, Food Contact
Temperature (Range) Part(s) Exposed to <73 'F
Type of Food/Water/Etc. O.J.

IV. SUPPLIER
Basic Material Supplier BF Goodrich [ ] Natural
Material Type Grey [X] Precolored: _____
Complete Formulation Id GEON 8761-273 [ ] See Form _____

V. COMPOSITION OF FORMULATION AND PERTINENT DATA - USE REVERSE SIDE.
To Be Completed By Basic Material/Pigment Supplier.

VI. CERTIFICATION
It is herein certified that this material is intended for the specific end use application. It is further certified that the information provided is accurate and complete and, in the case of materials intended for food zone application the material meets the requirements of the Federal Food, Drug, and Cosmetic Act as amended.

BASIC MATERIAL SUPPLIER

Company BF Goodrich - Geon Vinyl Division
Signature J C Fielding
Title Tech. Serv. Mgr.
Address 6100 Oaktree Blvd. Cleveland Ohio 44131
Telephone 216-447-4567 FAX 216-447-6605
Date 8/21/90

Seal in the BLUE envelope provided, insert in an outer envelope and MAIL TO:

Toxicological Services
National Sanitation Foundation
P.O. Box 1468
[illegible]

20874015

BFG07631

BFG07632

COMPOSITION OF FORMULATION AND PERTINENT DATA

Chemical Description of Ingredient (Do NOT Use Trade Names)	Parts by Weight	Supplier	Section of the U.S. Code of Federal Regulations (21 CFR)* under which accepted.
Please verify the material type/color and formulation identification referenced in Section IV on the reverse. Geon 8761-273			
Polyvinyl chloride	100.0	BFGoodrich	Prior Sanction
Styrene acrylonitrile	2.0	BFGoodrich	180.22 181.32
Di(n-butyl)tin bis (isooctyl mercaptoacetate)	2.0	M & T Argus	NSF Std. 14
Titanium dioxide	1.7	E.I. DuPont	181.30 177.2600
Carbon black	0.162	Cabot	177.2600
Calcium stearate	2.0	Synthetic Products Norak Mallinkrodt Witco	178.2010
N,N'Ethylene distearoyl-ethylene diamine		Carstab Lonza Witco Akzo Chemie-America	177.1210 181.28

PLEASE PROVIDE SIGNATURE/CERTIFICATION ON REVERSE SIDE.

* Available from the Superintendent of Documents, U. S. Government, Printing Office, Washington, D.C. 20402 (202-783-3238) or your local U. S. Government Printing Office outlet.

Title 21 (Food and Drugs), Parts 1-99: General information and color additives (direct).

Title 21 (Food and Drugs), Parts 170-199: Direct and indirect food additives, including ingredients for use in food contact materials.

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