

*Copied only
tagged pgs*

INTEROFFICE MEMORANDUM

Date: 12-Nov-1992 09:01am EDT
From: CONNIE DILLON
DILLON, CONNIE
Dept: D/5458
Tel No:

TO: PURKS, CHARLES V.

(CVP@ALTC@MRGATE)

Subject: GEON RECIPES

CHUCK,

THE RMI DATABASE SAYS THERE ARE NO RECIPES ON FILE FOR THE FOLLOWING GEON COMPOUNDS: GEON 87234, 87235, 84295, 87312 AND 3010. I AM WORKING ON A COMBUSTION TOXICITY PROJECT AND APPARENTLY THESE COMPOUNDS HAVE BEEN TESTED FOR SMOKE TOXICITY AND I NEED TO REVEIW THE RECIPES. CAN YOU PROVIDE THESE RECIPES?

CONNIE DILLON
EXT.7831

*who is looking
for the
on SP4C
Bob, just wants
PVC recipes*

*87234 #1769
87235 AD 2258, 1769, 1767
84295 #1772, 1767
87235 ↓
87312 #3811
Temple 3010 #3811
7082 #3992*

21520001

BFG14739

CLEVAX::BRDC::DILLONC

JOB 707

GEONTOX.OUT;1

File: _\$1\$DUA8:[SYSTEM.DQS\$SERVER]GEONTOX.OUT;1
Last Modified: 16-NOV-1992 14:55
Owner UIC: [DQS\$SERVER]

Length: 25 blocks
Longest record: 0 bytes
Priority: 4
Submit queue: CLE\$LLSE1\$ASCII
Submitted: 16-NOV-1992 14:55
Printer queue: LPS20\$CLELP1
Printer device: CLELP1

Digital Equipment Corporation

PrintServer 20 CLELP1

VAX/VMS Version V5.5-1 DECprint Printing Services V4.1

BFG14740

21520001 A

AN: 1765

FILE: GEN

TITLE: RESULTS OF THE EXPOSURE OF TEST RATS TO THE COMBUSTION
PRODUCTS FROM B.F.G.C.C. PRODUCTS

AUTHOR: O'MARA MM

AFFIL: BFG-CHEMICAL

DTYP: TECHNICAL REPORT

ORG: BFG-CHEMICAL

ABS: THIS REPORT PRESENTS A SUMMARY OF THE BACKGROUND LEADING UP
TO OUR FIRST ANIMAL COMBUSTION-EXPOSURE EXPERIMENTS, THE
CURRENT PHILOSOPHY BEHIND THIS KIND OF TESTING AND CURRENT
LIMITATIONS WITH THE TESTING. TWELVE KEY MATERIALS
INVOLVING THE FOLLOWING PRODUCT LINES
(ESTANE, ABSON, PVC, HI-TEMP) WERE CHOSEN FOR THIS INITIAL
EVALUATION. ALL EXPERIMENTS WERE CARRIED OUT AT U.S.
TESTING USING A MODIFICATION OF THEIR TESTING PROTOCOL. IN
SUMMARY, TEN OUT OF THE TWELVE SUBMITTED MATERIALS
PERFORMED WORSE THAN WOOD. ONE SMOKE RETARDED PVC
FORMULATION WAS MUCH SUPERIOR TO WOOD. AN ANALYSIS OF THE
DATA INDICATES THAT 5 OUT OF THE 10 MATERIALS WERE WORSE
THAN WOOD BECAUSE OF THE AMOUNT OF COMBUSTION PRODUCTS
PRODUCED; THE REMAINING 5 SAMPLES WERE WORSE THAN WOOD
BECAUSE OF THE KINDS OF COMBUSTION PRODUCTS PRODUCED.

DE: ACUTE

COMBUSTION

EFFECTS

POLYVINYL CHLORIDE

RAT

THERMAL DECOMPOSITION

TOXICITY

WOOD

DATE: 1975, OCTOBER 27

HELD: ABSON 820X16

ABSON 89129

ESTANE X430

GEON 3010

GEON 85721 NATURAL 020

GEON 8737 BLACK 289

GEON 8750

GEON 8804 BLACK 288

SMALL SCALE TESTS

REVYR: 1995

AN: 1767

FILE: GEN

TITLE: COMPARATIVE INHALATION TOXICITY OF HEATED MATERIALS
MEASURED AS INCAPACITATION, EXPOSURE MORTALITY AND POST
EXPOSURE MORTALITY

AUTHOR: NONE

AFFIL: NONE

DTYP: TOXICITY STUDY

ORG: NONE, FOR BFG REPORT NO. A51192

ABS: THE COMBUSTION TOXICITY OF PVC, PVC/ZINC FERROCYANIDE, AND
SEVERAL PVC COMPOUNDS WAS STUDIED.

DE: ACUTE

COMBUSTION

EFFECTS

21521004

BFG14741

P001R71 BF GOODRICH COMPANY MESSAGE SERVICE 10:59:41
 FROM: P103R360 TO: CLEVMAIN DOCUMENT: 270005 197 LINES 10/27/92

ROUTE TO: DILLON, CONNIE N

GEON VINYL TECHNICAL DOCUMENT

N103360 G E O N V I N Y L RECIPE 10/27/92 10:59:33

GEON B7416 BLACK 288
 COMMODITY NO.: 87416 000 2880
 SBC NBR: 1307
 LAB REF:
 BASED ON:
 APPLICATION:

OSHA WARNING LABEL: A
 LOC: 12 DEPT: 5667 ISSUE: 392 EA
 EFFECTIVE DATE: 01/01/92
 DELETE FLAG: NO
 CMFR:

PARTS	INGREDIENTS	SEQ	LOC	PERCENT
83.46990	961 000023 103EP F-76	110	12	83.612
2.50409	941 00K006 PARALOID K-120N	210		2.508
4.17349	942 00K026 DURASTRENGTH 200	220		4.181
1.08510	912 00S086 MARK 1900	310		1.087
2.50409	925 710684 CAMEL-CAL ST	410		2.508
2.08674	922 00B289 BLACK PEARLS 700	510		2.090
1.66939	943 00L034 CA STEARATE-FUSED	610		1.672
.62602	943 00L016 MINERAL OIL USP	620		.627
.25041	943 00L002 STEARIC ACID	630		.251
1.46072	943 00L045 GLYCOLUBE 674 BEADS	640		1.463
99.83000	TOTAL			100.000

SPECIFIC GRAVITY: 1.37
 TYPE SAMPLE: *OK*
 ISSUED: *OK*
 MARKETING APPROVAL: *Prior Sanction*

✓ L-34: Calcium Stearate (Cas. No. 1597-23-0) → 177.2600; 178.2010; 181.29
 ✓ L-2: Stearic acid → 175.300; 177.1630
 ✓ L-45: Ethylene Glycol Diacrylate → 178.3790
 ✓ L-3: PVC Resin (Cas. No. 9002-86-2) → 178.3790; 177.1010; 181.30
 ✓ K-26: Modifier Acrylic Type
 ✓ K-6: EA/HMA Copolymer (Cas. No. 9010-88-2)
 ✓ S-86: Di-methyl T.in 2-ethyl hexyl thioglycolate (Cas. No. 57583-35-4) → 178.2010
 ✓ 710684: Calcium Carbonate (Cas. No. 1317-65-3) → 177.2400; 177.2600;
 ✓ B-289: Carbon Black (Cas. No. 1323-86-4) → 178.3620; 175.105; 176.200; 176.210;
 ✓ L-16: Triphenyl Oil (Cas. No. 8042-47-5) → 177.2200; 178.3910; 177.2600 (30%); 177.2800;
 178.3570 (10 ppm)

BFG14750

21522002

0001RT1 SF GOODRICH COMPANY MESSAGE SERVICE 10:58:41
FROM: R103R360 TO: CLEVMAIN DOCUMENT: 270004 177 LINES 10/27/92

ROUTE TO: DILLON, CONNIE N

GEON VINYL TECHNICAL DOCUMENT

R103360 GEON VINYL RECIPE 10/27/92 10:58:36

GEON 87262 GRAY 2298 LOC: 12 DEPT: 5667 ISSUE: S92 AB
COMMODITY NO.: 87262 00A 2298 EFFECTIVE DATE: 01/01/92
SBC NBR: 13C1 DELETE FLAG: NO
LAB REF: CMFR
BASED ON:
APPLICATION:

PARTS	INGREDIENTS	SEQ	LUC	PERCENT
85.13391	961 000277 30 GEON RESIN	110	12	85.134
4.51209	942 710701 1430 X 20	210		4.512
4.25669	941 710700 2301 X 36	220		4.257
.93647	912 00S086 MARK 1900	310		.936
1.70267	924 709916 TIOXIDE R-EC6	410		1.703
.12770	923 00B316 B-316 RED DISP	420		.128
.02383	922 00B289 BLACK PEARLS 700	430		.024
.11407	921 00B084 YELLOW YO-2087 OXIDE	440		.114
	952 00D032 DEMINERALIZED WATER	510		
1.48984	943 00L034 CA STEARATE-FUSED	610		1.490
1.70267	943 00L016 MINERAL OIL USP	620		1.703

100.00000

4-16: Mineral Oil

SPECIFIC GRAVITY: 1.39

TYPE SAMPLE:

ISSUED:

MARKETING APPROVAL:

277:

PVC Resin (9002-86-2)

710701: Butadiene/Acrylonitrile (9003-56-9)

710700: Styrene/Acrylonitrile (9003-54-7)

5-86: Dimethyl Tin 2-Ethyl Hexoate
Phenyl Ester (575 83-35-4)

709916: Titanium Dioxide (13463-67-7)

9002-86-2 1047-16-1 471-34-1
B-316: PVC/C.I. Pigment Yellow 19/Calcium Carbonate

B-289: Carbon Black (1333-86-4)

B-81: Pigment Yellow #42 (51274-00-1)

4-34: Calcium Stearate (1592-23-0)

TOTAL 100.000

175.105; 176.200/210; 177.2260/2600/2800
178.3910; 178.3570 (10 ppm)

HARDNESS: D-78

COLOR: 1

FDA Clearance

Prior Sanction

181.32

175.105/300/320; 176.180; 177.1200;
177.1210; 181.32

More (per argu) 178.2010
175.105/210/300/340; 176.170; 177.1200
177.1210/1350/1400/1460/1650/2260
177.2600/2800/178.3297; 181.30

177.2400; 177.2600;

177.2600; 178.2010; 181.29

BFG14751

21522003

Enter your VAX password:

USER ERROR(4006). No active Kernel exists for the given Kernel name.

ABNORMAL TERMINATION

USER ERROR(4006). No active Kernel exists for the given Kernel name.

P103R60
M10360

PRODUCTION RECIPE INQUIRY

PAGE 1

USERID: N50CND1A
TERMID: PV120133

PRODUCT NO. 85721 00E 0200 LOC 66 DEPT 4001 ISSUE S92
DESCRIPTION GEON 85721 0200 SBC 13P3 INT. RM.

CO. CODE G

ITEM	RM	NUMBER	DESCRIPTION	QUANTITY	USE
010	961	000023	103EP F-76	84.388187	
020	941	710700	2301 X 36	8.438819	
030	912	00S008	TIN THIOGLYCOLAT	1.265823	
040	943	630182	CALCIUM STEARATE	.675105	
050	943	631526	BIS STEARAMIDE P	.675105	
060	943	00L037	WAX E	.675105	
070	942	709877	TYRIN 3615	2.531646	
080	925	630037	MARINCO H-USP	.210970	
090	924	709916	TIOXIDE R-FC6	.506329	
100	953	709678	CELOGEN AZ RV	.632911	

23: PVC Resin
710700: Styrene/ACN
58: Tin thioglycolate (25168-245)

TOTAL 100.000000 TO MAKE 100.000000

END OF INQUIRY

630182: Calcium Stearate
631526: N,N' Ethylene bisstearamide
H-37: Ester of Morton Wax w/ Octyldecyl Alcohol
709877: 4D Chlorinated Polyethylene
Coc. No. 64754-190-1
630037: Magnesium Hydroxide
709916: Titanium Oxide
709678: Azodicarbonamide

BFG14752

21522004

P001R71 BF GOODRICH COMPANY MESSAGE SERVICE 11:03:25
 FROM: P103R360 TO: CLEVMAIN DOCUMENT: 270006 156 LINES 10/27/92

ROUTE TO: DILLON, CONNIE N

GEON VINYL TECHNICAL DOCUMENT

R103360 G E O N V I N Y L RECIPE 10/27/92 11:03:20

GEON 8804 BLACK PLTS 288 LOC: 47 DEPT: 5611 ISSUE: S92
 COMMODITY NO.: 78804 000 2884 EFFECTIVE DATE: 01/01/92
 SRC NBR: 13W1 DELETE FLAG: NO
 LAB REF: CMPR:
 BASED ON:
 APPLICATION:

PARTS	INGREDIENTS	SEQ	LUC	PERCENT
46.95641	961 000277 30 GEON RESIN	120	47	45.549
22.53908	931 00P072 DIDP ELECT GRADE	210		21.863
9.86084	931 00P079 PALATINDL 711 P	220		9.565
1.46956	935 00P031 EPOXY SOYA	230		1.455
1.64347	913 00S067 TRIBASIC LEAD SULF	310		1.594
21.13038	925 00F005 CALCIUM CARBONATE	410		20.497
1.10142	925 711206 MISTRON VAPOR	420		1.098
1.38879	922 00B291 BLACK, REGAL 330	510		1.377
103.09000		TOTAL		100.000

S67-USE TXC D RESP, AD VENT

SPECIFIC GRAVITY: 1.36 HARDNESS: A-83
 TYPE SAMPLE: COLOR: 2
 ISSUED:
 MARKETING APPROVAL:

277: PVC Resin
 Diisobutyl Phthalate P-72: 1,2-Benzenedicarboxylic acid, DI-C9-11-Branched A11
 P-79: Phthalate C-7/c-11 Ester
 P-31: Epoxidized Soyabean Oil
 S-67: Tribasic Lead Sulfate (cos. No. 12202-174)
 F-5: Calcium Carbonate
 711206: Talc (14807-96-6)
 B-291: Carbon Black, Luvacel

21522005

BFG14753

PG04R71 EF GOODRICH COMPANY MESSAGE SERVICE 11:03:25
FROM: R103R360 TO: CLEVELAND DOCUMENT: 270007 193 LINES 10/27/92

ROUTE TO: DILLON, CONNIE N

GEON VINYL TECHNICAL DOCUMENT

R103360 G E O N V I N Y L RECIPE 10/27/92 11:03:18

GEON 9750 NATURAL 020 QSHA WARNING LABEL: A
COMMODITY NO.: 78750 000 0200 LOC: 12 DEPT: 5667 ISSUE: 892 AB

SBC NBR: 1309 EFFECTIVE DATE: 01/01/92
LAB REF: DELETE FLAG: NO
CMFR:

BASED ON:
APPLICATION:

PARTS	INGREDIENTS	SEQ	LOC	PERCENT
97.50000	964 000390 110 X 430 G	120	12	86.207
2.62500	941 710700 2301 X 36	210		2.586
1.31250	912 003086 MARK 1900	310		1.293
6.56250	925 709635 SUPER-PILEX 200	410		6.466
1.75000	943 001034 CA STEARATE-FUSED	510		1.724
1.75000	943 001035 EBS WAX POWDER	520		1.724
101.50000	TOTAL			100.000

SPECIFIC GRAVITY: 1.40 HARDNESS: D-80
TYPE SAMPLE: COLOR: 2
ISSUED:
MARKETING APPROVAL:

390: P12 Recipe (9002-86-2)
710700: Styrenyl Acryl (9003-54-7)
S-86: Rimethyl Tin 2-Ethyl Hexyl
Thioetherate
709635: Calcium Carboxylate Stearate
H-35: N,N'-Ethyl hex bisectamidine
H-34: Calcium Stearate

21522006

P001R71 BF GOODRICH COMPANY MESSAGE SERVICE 11:05:34
FROM: P103R360 TO: CLEVMAIN DOCUMENT: 270008 187 LINES 10/27/92

ROUTE TO: DILLON, CONNIE N

***** GEON VINYL TECHNICAL DOCUMENT *****

R103360 G E O N V I N Y L RECIPE 10/27/92 11:05:30

USHA WARNING LABEL: A
GEON 7082 WHITE 138 LOC: 12 DEPT: 5683 ISSUE: S92
COMMODITY NO.: 77082 000 1380 EFFECTIVE DATE: 01/01/92
SBC NBR: 1307 DELETE FLAG: NO
LAB REF: CMPR:
BASED ON:
APPLICATION:

PARTS	INGREDIENTS	SEQ	LOC	PERCENT
92.65588	941 000016 102EP F-5	110	12	79.302
4.63279	941 710700 2301 X 36	210		3.965
1.48249	912 00S085 THERMOLITE 31 SUPER	310		1.269
13.89838	924 00B123 TI-PURE R-100	410		11.895
.07319	921 00B296 BROWN #7739	420		.063
.32614	921 00B287 GOLDEN TY-70	430		.279
* .06485	941 000405 87333-000-2102 <i>see attached</i>	440		.056
1.85311	943 00L034 CA STEARATE-FUSED	510		1.586
1.85311	943 00L035 EBS WAX POWDER	520		1.586
116.84000	TOTAL			100.000

B296-USE TXC D RESP, AD VENT .

SPECIFIC GRAVITY: 1.47 HARDNESS: D081
TYPE SAMPLE: COLOR: 1
ISSUED:
MARKETING APPROVAL:

*
87333-000-2102
PVC Resin
Calcium Carbonate
Carbon Black, furnace
16: PVC Resin
710700: Styren/ACN
S-85: Acetic Acid, 2,2'-(Di-n-butylstannylene)Bis(Thio))BI
B-123: Titanium Dioxide
B-296: Chrome Hydroxide fine Brown Spinel
B-287: Nickel Titrate Pigment
L-34: Calcium Stearate
L-35: N,N'-Ethylene Bisectaramide

21522007

BFG14755

001471

87 GOODRICH COMPANY MESSAGE SERVICE

15:40:57

FROM: P103R360

TO: CLEVMAIN

DOCUMENT: 100008

48 LINES

11/10/92

NOTE TO: DILLON, CONNIE N

GEON VINYL TECHNICAL DOCUMENT

R103360

G E O N V I N Y L RECIPE

11/10/92 15:40:55

GEON 87333 BLACK PNB 210

LOC: 47 DEPT: 5600

ISSUE: 392

COMMODITY NO.: 87333 000 2102

EFFECTIVE DATE: 01/01/92

SBC NBR: 13PM

DELETE FLAG: NO

LAB REF:

CMPR:

BASED ON:

APPLICATION:

PARTS	INGREDIENTS	SEQ	LOC	PERCENT
63.25625	961 000452 110 X 377	160	47	62.500
27.83275	925 709635 SUPER-PFLEX 200	210		27.500
10.12100	922 00B002 BLACK RAVEN 410 PWD	310		10.000
101.21000		TOTAL		100.000

TYPE SAMPLE:

COLOR: 2

ISSUED:

MARKETING APPROVAL:

452: PVC Resin

709635: Calcium Carbonate

B-2: Carbon Black, Furnace

21522008

BFG14756