

Dr. W. B. Ackart
Bakelite Company
River Road
Bound Brook, New Jersey

February 3, 1958

Mr. W. B. Tibbets
Dr. H. F. Smyth, Jr.
Mr. G. T. Scriba
Mr. J. W. McLaughlin, Jr.

VCAD-3420 Ivory 125, Issue 1
VCAD-3420 Ivory 125, Issue 2

Dear Dr. Ackart:

This department received acceptance from the FDA for VCAD-3420 (calendered rigid vinyl) for food packaging applications in a letter dated 10/24/57. The colorants, namely M.F. Grade TiO₂ and F.D.&C. Yellow No. 5, are listed in publications as being acceptable.

The modifications in respect to Issue No. 2 would be considered acceptable in that there is not an increase in the amounts of C-2 and G-62, but a decrease. The colorants are the same. The minor addition of 0.05 per cent of DYNV would not be objectionable since such polyethylene is considered acceptable.

We think that VCAD-3420 Ivory 125, Issue 2 is acceptable for use in food packaging applications based upon information we have on file from the Federal Food and Drug Administration.

Very truly yours,

MEDICAL DIRECTOR

Thomas W. Hale, M. D.

UCC
063625

BAKELITE COMPANY

UCC

RIVER ROAD, BOUND BROOK, NEW JERSEY

To (Name)	Dr. T. W. Nale	Date	January 31, 1958
Company	Union Carbide Corporation	Originating Dept.	817-Packaging
Location	300 Madison Avenue New York 17, N. Y.	Answering letter date	
Copy to	Mr. W. B. Tibbets - BB	Subject	

You will recall that the FDA, in a letter to you dated October 24, 1957 stated that our calendered rigid vinyl VCAD 3420 was acceptable for food packaging applications.

The attached report by Mr. J. J. Glick dated January 28, 1958, discusses the necessity for two minor formulation changes and gives the present and proposed formulations. It is my understanding that these must be presented to the Food and Drug Administration.

For my own information, by what means did we obtain approval in regard to the presence of zinc stearate?

Thanks for your cooperation.

Very truly yours,

W. B. Ackart
W. B. Ackart

WBA/bhm

RECEIVED

JAN 31 1958

UCC
063626

Dr. W.B. Ackart (3)
Bakelite Company
Bound Brook, New Jersey

Technical Service Report
Project No. 14-9-5105
Job No. 156
Date: January 28, 1958

Subject: F.D.C. Approval
VCAD-3420 Ivory 125
Issue No. 2
File: 4.S

Difficulty had been encountered with the processing of the food grade rigid vinyl calendering compound VCAD-3420 Ivory 125 (Issue No. 1). This is the rigid sheeting that is being used in the Sealright Company's milk bottle cap application. In order to aid processing, it was necessary to reduce two components, C-2 and G-62. A new formulation, VCAD-3420 Ivory 125 (Issue No. 2), has been issued to facilitate processing. This new formulation (Issue No. 2) differs from the old (Issue No. 1) in that new optimum concentrations are recommended and ranges are set for the C-2 and the G-62.

Mr. J.W. McLaughlin, Sales Manager of Division 52, has expressed concern as to the effect these changes might have on F.D.A. approval for food use. Your opinions and/or Dr. Nale's are requested as to how these changes would effect F.D.A. approval of this compound for use in its particular food application.

I am enclosing two copies each of the Tentative Product Formulations for VCAD-3420 Natural Issues No. 1 and 2. The following is the Ivory 125 formulation for this compound.

<u>Material</u>	<u>Issue No. 1</u>	<u>Issue No. 2</u>
VYNS	92.04	92.39
C-2	1.00	0.75
G-62	0.60	0.45
Zinc Stearate	0.10	0.10
Calcium Stearate	1.25	1.25
DYNF	0.00	0.05
N.F. Grade TiO ₂	5.00	5.00
F.D.&C. Yellow No. 5	0.01	0.01
	<u>100.00</u>	<u>100.00</u>

The ranges are the same for the Ivory 125 as for the Natural base.

JJG:vlk
1-28-58

J.J. Glick
J.J. Glick

with wgt 0.5 grams

cc: Mr. W.F. Hemperly - BB
Mr. G.G. Himmler - BB (2)
Mr. J.W. McLaughlin - 292 Mad.
Mr. J.A. Pomeroy - 535-5th Ave.
Mr. M.G. Robinson - BB

UCC
063627

Dr. W.B. Ackart (3)
Bakelite Company
Bound Brook, New Jersey

Technical Service Report
Project No. 14-9-5105
Job No. 156
Date: January 28, 1958

Subject: F.D.C. Approval
VCAD-3420 Ivory 125
Issue No. 2
File: 4.S

Difficulty had been encountered with the processing of the food grade rigid vinyl calendering compound VCAD-3420 Ivory 125 (Issue No. 1). This is the rigid sheeting that is being used in the Sealright Company's milk bottle cap application. In order to aid processing, it was necessary to reduce two components, C-2 and G-62. A new formulation, VCAD-3420 Ivory 125 (Issue No. 2), has been issued to facilitate processing. This new formulation (Issue No. 2) differs from the old (Issue No. 1) in that new optimum concentrations are recommended and ranges are set for the C-2 and the G-62.

Mr. J.W. McLaughlin, Sales Manager of Division 52, has expressed concern as to the effect these changes might have on F.D.A. approval for food use. Your opinions and/or Dr. Nale's are requested as to how these changes would effect F.D.A. approval of this compound for use in its particular food application.

I am enclosing two copies each of the Tentative Product Formulations for VCAD-3420 Natural Issues No. 1 and 2. The following is the Ivory 125 formulation for this compound.

<u>Material</u>	<u>Issue No. 1</u>	<u>Issue No. 2</u>
VYNS	92.04	92.39
C-2	1.00	0.75
G-62	0.60	0.45
Zinc Stearate	0.10	0.10
Calcium Stearate	1.25	1.25
DYNF	0.00	0.05
N.F. Grade TiO ₂	5.00	5.00
F.D.&C. Yellow No. 5	0.01	0.01
	<u>100.00</u>	<u>100.00</u>

The ranges are the same for the Ivory 125 as for the Natural base.

JJG:vlk
1-28-58

J.J. Glick
J.J. Glick

cc: Mr. W.F. Hemperly - BB
Mr. G.G. Himmler - BB (2)
Mr. J.W. McLaughlin - 292 Mad.
Mr. J.A. Pomeroy - 535-5th Ave.
Mr. M.G. Robinson - BB

UCC
063628

J.W. McLaughlin - N.Y.
A.J. Dragonett - N.Y.

TENTATIVE PRODUCT FORMULATION
AND REQUEST FOR COST ESTIMATE

Issue No. 2
Date 1/9/58
Supersedes VCAD-3420
Date 3/11/57

TO: * Standard Cost Division (1) R.W. Spilner
J.L. Herrmann
CC: * Planning & Scheduling Dept. J.D. Davie
Asst. Supt. Mfg. Plant 312 D.M. Pollock
* Asst. Supt. Mfg. Plant R.A. Craig
Asst. Supt. Qual. Control Div. (2) T.F. Archer
Asst. Director of Development W.F. Hemperly
Group Leader (2) G.G. Himmler
Development Dept. File W.R. Frenz
Mr. W. J. Canavan - 535 Fifth Ave., N.Y.
Mrs. E.S. Stettner - 292 Madison Ave., N.Y.
Mr. J. J. Glick (all extra copies)
* Note: DENOTES DISTRIBUTION TO BE MADE BY COLOR MATCHING GROUP.

Product VCAD-3420 Natural
Base
Notebook 5199 Page 2 Date 1/8/58
Color Matched To
Product Type Code 121
Basic Material VyCl-Ac Grade VYNS
Processing Cal Rigid Form Sheeting
Differs From VCAD-3420-range of C-2
and Paraplex G-62 permitted
Customer Sealright
Sample To
Application Food Packaging Application

MATERIAL CODE NO.	MATERIAL DESCRIPTION	%	COMPOSITES	RAW MAT'L. COST	
				UNIT	AMOUNT
146-S	VYNS	97.40			
146-AD	VYHE	0.00	(0.00-10.0)		
397-E	C-2	0.75	(0.50-1.00)		
118-M	G-62	0.45	(0.30-0.60)		
132-A	Zinc Stearate	0.10			
90-B	Calcium Stearate	1.25	(0.50-1.50)		
411-W	DVNE	0.06	(0.00-0.10)		
	Note: Optimum concentrations are indicated in the main column. The permissible ranges of certain ingredients are shown in parenthesis. Vary the VYNS resin to balance out variations made in other ingred- ients. C-2 must be paste ground in G-62 to assure good dispersion.				
TOTAL		100.00			
YIELD					

APPARATUS PRESCRIBED: Banbury, Mill, Calender - All equipment must be thoroughly
cleaned and entirely free of contamination by Toxic materials such as lead,
barium and cadmium.

PRODUCTION DATA: LBS. PER HOUR CYCLE HOURS PROCESSING SIMILAR TO:

GENERAL REMARKS: This differs from the previous formulation in that a range is now
set for the C-2 and G-62. This supersedes Issue No. 1, issued on 3/11/57.

NEW PRODUCT () REVISION (X) PROJECT NO. 14-9-5105

SHIPPING CONTAINER AND WEIGHT

STORAGE, SHIPMENT & RETEST CODE

REQUESTED BY N. P. F.
SALES, MFG., N.P.E., ETC.

SIGNED J. J. Glick
(ORIGINATOR)

APPROVED G. G. Himmler
(GROUP LEADER)

PRODUCT DESCRIPTION		COST PER POUND	
SIZE	MATERIAL		
M.L.S.	DIRECT LABOR		
SPECIFIC GRAVITY <u>1.36</u>	OVERHEAD		
COST PER SHEET (CENTS)	COST PER POUND		
MATERIAL	NON-RETURNABLE CONTAINERS		
LABOR	TOTAL		
EXPENSE			
TOTAL			
		PLANISHING PLATES	
		TOTAL COST	

8810-1287

UCC
063629

Issue No. 2
Date 1/9/58
Supersedes VCAD-3420
Dat d 3/11/57

Product VCAD-3420 Natural
Base _____
Notebook 5199 Page 2 Date 1/8/58
Color Matched To _____
Product Type Code 121
Basic Material VyCl-Ac Grade VYNS
Processing Cal Rigid Form Sheeting
Differs From VCAD-3420-range of C-2
and Paraplex G-62 permitted
Customer Sealright
Sample To _____
Application Food Packaging Applicat

* Note: DENOTES DISTRIBUTION TO BE MADE BY COLOR MATCHING GROUP.

MATERIAL CODE NO.	MATERIAL DESCRIPTION	%	COMPOSITES	RAW MAT'L. COST	
				UNIT	AMOUNT
146-S	VVNS	97.40			
146-AO	VYHH	0.00	(0.00-10.0)		
397-E	C-2	0.75	(0.50-1.00)		
118-M	G-62	0.45	(0.30-0.60)		
132-A	Zinc Stearate	0.10			
90-B	Calcium Stearate	1.25	(0.50-1.50)		
411-W	DVNF	0.05	(0.00-0.10)		
	Note: Optimum concentrations are indicated in the main column. The permissable ranges of certain ingredients are shown in parenthesis. Vary the VVNS resin to balance out variations made in other ingredients. C-2 must be paste ground in G-62 to assure good dispersion.				
TOTAL		100.00			
YIELD					

Note: Optimum concentrations are indicated in the main column. The permissible ranges of certain ingredients are shown in parenthesis. Vary the VYNS resin to balance out variations made in other ingredients. C-2 must be paste ground in G-62 to assure good dispersion.

APPARATUS PRESCRIBED: Banbury, Mill, Calender - All equipment must be thoroughly cleaned and entirely free of contamination by Toxic materials such as lead, barium and cadmium.

PRODUCTION DATA: LBS. PER HOUR

CYCLE HOURS

PROCESSING SIMILAR TO:

GENERAL REMARKS:

GENERAL REFERENCE: This differs from the previous formulation in that a rang is now
s t for the C-2 and G-62. This supersedes Issue No. 1, issued on 3/11/57.

NEW PRODUCT () REVISION (X)

PROJECT NO. 14-9-5105

SHIPPING CONTAINER AND WEIGHT

STORAGE, SHIPMENT & RETEST CODE

REQUESTED BY N. P. E.
YSALES, INC., N.P.E., ETC.

SIGNED J. Glick
(ORIGINATOR)

APPROVED [Signature]
(GROUP LEADER)

PRODUCT DESCRIPTION		COST PER POUND	
SIZE	MATERIAL		
M.L.S.	DIRECT LABOR		
SPECIFIC GRAVITY 1.36	OVERHEAD		
COST PER SHEET (CENTS)	COST PER POUND		
MATERIAL	NON-RETURNABLE CONTAINERS		
LABOR	TOTAL		
EXPENSE			
TOTAL		PLANISHING PLATES	
		TOTAL COST	

11:54 AM

UCC
063630