FORMULA RECORD

FORMULA NO. Y-1892-SP & Tor.

GOODS: House Paint - White "Enamelized"

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 6/10/60

FOR USE/USE ON TORONTO & SAN FRANCISCO ONLY

STRAINER GRIND 6-7

CUSTOMER/PER Less than 1% Lead

MILL Pebble WT. OR BE 10.0#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-[illegible]-170				(7.58)	265	
W-[illegible]-188				(0.67)	16	
W-[illegible]-154				(0.71)	16	
CB[illegible]-185				(0.26)	2.3	
W-[illegible]-218)Premix before				(0.40)	6.0	
S-[illegible]-72)adding to mill.				(0.61)	(4.0)	
V-[illegible]-869				62.7	(492)	
O-[illegible]265				14.0	(108)	
S-[illegible]-43				9.5	(62)	
VM[illegible]-523				0.50	(4)	
VM[illegible]-433				0.25	(2)	
VM[illegible]-432				0.63	(6)	
D-[illegible]-43				0.58	(4)	
C[illegible]-359				0.20	(1.5)	
VM[illegible]-659				1.25	(10.0)	
(M[illegible]-486)*				0.28	(2.0)	
*[illegible]ydol Laboratories, Inc.						
Jeffelomer 903						
YIELD				100.12	1000.8	

Standard Formula. Not to be changed without approval.

IS AGITATOR REQUIRED

VISC. F.B. 78-82 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN Hi-Gloss

NON VOL. FLASH PT.

THINNER FOR

REDUCER S-A3

WT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 48 hrs.

REMARKS: CAUTION: WHEN [illegible] MATERIAL IS THIXOTROPIC.

FORMULATOR J.E. Southwick

N12408

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-SF & T
		PIGMENT 30.3 %		House Paint - White Enamelized
		VEHICLE 69.7 %		
		100.0%		
				5/10/60
		PIGMENT		
		Titanium Dioxide	89.2%	
		Magnesium Silicate	5.4	No. 1 Label Warning
		Calcium Carbonate	5.4	
			100.0%	
				Cleve. Muterbaugh - Southwick - TTS + pipeshipper 6-14-60
				Toronto - San Francisco 6-14-60
		VEHICLE		
		Soya Alkyd Resin	57.8%	Paul Hamblin 7-20-60
		Mineral Spirits & Driers	42.2	Schuett (SF) 9-2-60
			100.0%	
				Kin Tong (Taiwan) Full Liq #417 7-21-60
				#5 (Pratt - [redacted]) 6-13-61 Dept N.
				West Indies 12-6-61
		Y-1892 066		

GLD060750

GLIDDEN 480-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. V-1892-B (SP)

GOODS Endurance House Paint "Enamelized" White

LABORATORY NO. 6-11-64

CONSISTENCY

COST CLASS DATE 8-3-64

FOR USE ON San Francisco - ONLY

STRAINER GRIND 6-7

CUSTOMER Less than 1% Lead

MILL Pebble WT. OR BE 9.7

IS AGITATOR REQUIRED

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				6.96	240.0	
W-282				1.57	30.0	
CH-475				0.83	6.7	
VM-523	IN GRIND			0.14	1.1	
M-333				0.31	4.3	
V-869	[illegible]			70.40	546.0	
O-265	[illegible]			12.00	92.5	
S-43				6.00	39.0	
VM-534				0.25	2.0	
VM-432				0.50	4.8	
VM-524				0.29	2.3	
CH-359				0.20	1.5	
VM-659				1.00	8.1	
M-486				0.16	1.1	
YIELD				100.61	979.00	

Standard Formula. Not to be taken from File.

VISC. F. B. 85-90 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT. 100°F.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Over Night

A. D. TO RECOAT IN 48 Hrs.

REMARKS:

Revised to show grinding

Procedure

FORMULATOR J. E. Southwick

GLD060751

GLIDDEN 450-H PRINTED IN U.S.A. FROM

FORMULA RECORD

FORMULA NO. V-800-R (SF)

GOODS Endurance House Paint "Enamelized" White

LABORATORY NO.

CONSISTENCY

COST CLASS DATE 10/11/6

FOR USE ON San Francisco - ONLY - 12 - 14

STRAINER GRIND 6-7

CUSTOMER Less than 1% Lead

MILL Pebble WT. OR BE 9.7

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				5.96	230.0	
W-282				1.57	30.0	
CH-475				0.83	6.7	
VM-523	IN GRIND			0.14	1.1	
A-333				0.31	4.3	
V-869 (25 gal. in grind)				70.40	546.0	
O-265 (10 gal. in grind)				12.00	92.5	
S-43				6.00	39.0	
VM-534				0.25	2.0	
VM-432				0.50	4.8	
VM-524				0.29	2.3	
CH-359				0.20	1.5	
VM-659				1.00	8.1	
M-486				0.15	1.1	
	Standard Formula, Not to be taken from File.					
YIELD				100.61	979.00	

IS AGITATOR REQUIRED

VISC. F. B. 85-90KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT. 100°F.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Over Night

A.D. TO RECOAT IN 48 Hrs.

REMARKS:

**Reissued to show grinding procedures.

FORMULATOR J. E. Southwick

GLD060752

C&R FORMULA
Glidden Form 1109-J. Printed in U.S.A. 9/65

Product: ENDURANCE HOUSE PAINT "ENAMELIZED" WHITE
Customer: SAN FRANCISCO - ONLY

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
V-282	1.57	30.0	3.1	Pre-mix on Cowles
GH-475	0.83	6.7	0.7	for 5 min.
V-290	6.96	240.0	24.6	
M-333	0.31	4.3	0.4	
VM-523	0.14	1.1	0.1	
V-869	70.40	546.0	55.8	Use 20 gal. in mill
				paste. More may be added if
				needed. DO NOT THIN EXCESSIVELY
O-265	12.00	92.5	9.4	Use all in mill paste
S-43	6.00	39.0	4.0	
				Standard formula.
VM-534	0.25	2.0	0.2	Not to be taken
VM-432	0.50	4.8	0.5	from File.
VM-524	0.20	2.3	0.2	
GH-359	0.20	1.5	0.2	
VM-539	1.00	8.1	0.8	
M-286	0.16	1.1	0.1	
				as 1/2-1 oz/gallon
6870-957				may be used to stop sag.
Yield	100.61	979.0	100.0%	

Formula Number: V-1892-5 (Cowle
Laboratory Number:
R.M. Cost: Date 2/11/6
Mill: Cowles Grind: 5
% Lead: Less than 1% Method:
Wt./Gal.: 9.7# Method:
Flash Pt. °F.: 100°F Method:
N.V. Wt.: 70.4 Method:
N.V. Vol.: 57.3 Method:
Visc. F.B.: 85-90 KU Method:
Visc. Red.: Method:
Reducer: Ratio:
pH: 14.9
Color: White Match:
Gloss: Method:
Strainer:
Container:
Label Warning: 11-62
Application:
DISCONTINUED
Cure:
SLF
Remarks:
Formulator: J. R. Southwick
Approved by: S. Bowell

GLD060753

CLASS					
CODES					

DESCRIPTORS (20 spaces – limit)

Trade Name [redacted] Customer

Substrate and Treatment

End Use Wood

Specifications

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins - Soya Alkyd

Color White Gloss 90

For Use On

Resistance

Manufactured at Plants #14 Only - 2-10-66
#30 2-17-66 C

Contains added Fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the coated film.

Resistant to Mildew on the Paint Film Only

Di(Phenyl Mercury) Dodecenyl Succinate 0.18%
Inert Ingredients 99.82
100.00%

2/11/66 ANALYSIS Y-1892-E

Pigment 27.7 %

Vehicle 72.3 %

100.0%

Pigment	
Titanium Dioxides	89.0
Silica & Silicates	11.0
	100.0

Vehicle	
Soya Alkyd Resin	59.
Mineral Spirits & Driers	40.
	100.

Label Warning No. 44-62

MFVL

Y-1892 662

Glidden Form 1109-1 (back) Printed in U.S.A. 9/65

GLD060754

C&R FORMULA
Glidden Form 1109-1 Printed in U.S.A. 9/65

BASE

Product: Endurance House Paint "Enamelized" White

Customer: San Francisco Only

Formula Number: Y-1892-B(Cowles

Laboratory Number:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
O-265	12.00	92.5	9.4	Use all in Mill Paste.
V-869	20.00	155.0	15.8	May be varied to give
				proper mill paste con-
CH-475	0.83	6.7	0.7	sistency. Mix on Cowles 5
Y-282	1.57	30.0	3.1	min. before adding
				other pigments.
Y-290	6.96	240.0	24.5	
M-333	0.31	4.3	0.4	
VM-523	0.14	1.1	0.1	
V-869	50.40	391.0	40.0	
S-43	6.00	39.0	4.0	
VM-534	0.25	2.0	0.2	
VM-432	0.50	4.8	0.5	
VM-524	0.29	2.3	0.2	
CH-359	0.20	1.5	0.2	
VM-659	1.00	8.1	0.8	
M-486	0.16	1.1	0.1	
VM-957	**			**1/2-1 Oz/gal. may
				be used to control
Yield	100.61	979.0	100.0%	sagging.

Standard Formula
Not to be taken
from File

R.M. Cost	Date 3/16/6
Mill Cowles	Grind 5
% Lead Less than 1%	
Wt./Gal. 9.7	Method
Flash Pt. °F. 100°F	Method
N.V. Wt. 70.4	Method
N.V. Vol. 57.3	Method
Visc. F.B. 85-90 KU	Method 4-C-1-a
Visc. Red.	Method
Reducer	Ratio
P.V.C. 14.9	pH
Color White	Match
Gloss	Method
Strainer	
Container	
Label Warning 11-62 NFVLA	
Application	
Cure	
Remarks	
Formulator Green/Southwick	
Approved by S. T. Bowell	

GLD060755

CLASS					
CODES					

DESCRIPTORS (20 spaces – limit)

Trade Name: ENTRANCE Customer:

Substrate and Treatment:

End Use: Wood

Specifications:

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins: Soya Alkyd

Color: White Gloss: 90

For Use On:

Resistance:

Manufactured at Plants: #14 Only 3-16-66

5-30

Contains added fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.

Resistant to Mildew on the Paint Film Only

Di(Phenyl Mercury) Dodecenyl Succinate	0.18%
Inert Ingredients	99.82
	100.00%

Glidden Form 1109-1 (back); Printed in U.S.A. 9/65

3/16/66 ANALYSIS Y-1892-B

Pigment	27.7 %
Vehicle	72.3 %
	100.0%

Pigment

Titanium Dioxides	89.0%
Silica & Silicates	11.0
	100.0%

Vehicle

Soya Alkyd Resin	59.8%
Mineral Spirits & Driers	40.2
	100.0%

Label Warning No. 11-62 NPVLA

No change in analysis.

Y-1892 662

GLD060756

Glidden Form 1109-1 Printed in U.S.A. 4/66

C & R FORMULA

Product: Endurance House Paint "Enamelized" White

Customer: (San Francisco Only)

Formula Number: V-1892-R(Cowle

Laboratory Number:

R.M. Cost: Date 3/17/67

Mill: Cowles Grind: 5

NPVLA: Load: 1

Viscosity: 11-62 METHOD

Flash Pt. °F: 100°

N.V.W.: 70.4%

N.V.Vol.: 57.3%

Visc. F.B.: 85-90 KU 4-C-1a

Visc. Red.:

Reducer: Ratio:

P.V.C.: 14.9% pH:

Color: White Match:

Gloss: Method:

Strainer:

Container:

Application: Brush

Cure: Air Dry: Overnight

Recoat: 48 hours.

Remarks:

Formulator: Green/Southwick

Approved by: Bowell

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
O-206	12.00	92.5	9.4	Use all in Mill Paste.
V-2390	20.00	155.0	15.8	(May be varied to give proper mill paste
C-978	0.83	6.7	0.7	Mix on Cowles con-
E-846	1.57	30.0	3.1	5 min. before) ency
				adding other
W-830	6.96	240.0	24.5	pigments.)
E-396	0.31	4.3	0.4	
E-380	0.14	1.1	0.1	
V-2390	50.40	391.0	40.0	
S-330	6.00	39.0	4.0	
E-324	0.25	2.0	0.2	
E-342	0.50	4.8	0.5	
E-304	0.29	2.3	0.2	
E-262	0.20	1.5	0.2	
E-419	1.00	8.1	0.8	
E-168	0.16	1.1	0.1	
E-173**				**1/2-1 oz/gal. may be used to control sagging.
Yield	100.64	979.0	100%	

Stain to be taken Not to be from File.

GLD060757

Citicorn Form 1109-1 (back) Printed in U.S.A. 4/66 C & R FORMULA

CLASS					
CODES					

DESCRIPTORS (20 spaces-limit)

Trade Name — Customer

Substrate and Treatment

End Use Wood

Specifications

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins Soya Alkyd

Color White Gloss 90

For Use On

Resistance

Manufactured at Plant #14 Only #30 1-4-67

Manufacturing Instructions or Remarks

~~Contains added fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.~~ Resistant to Mildew on the Paint film only.

DI (Phenyl-Mercury) Dodecenyl Succinate	0.10%
Inert Ingredients	99.82
	100.00%

Date 3/1/67 Formula No. Y-1892-B

Product Endurance House Paint - "Enamelized" White

Label Warning #11-62

ANALYSIS

Pigment 27.7	%
Vehicle 72.3	%
	100.0%

Pigment

Titanium Dioxides	89.0%
Silica & Silicates	11.0
	100.0%

Vehicle

Soya Alkyd Resin	59.8%
Driers	40.2%
	100.0%

NO CHANGE IN ANALYSIS

Y-1892 652

GLD060758

GL (REV. 12-53) PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1892 *

GOODS Endurance House Paint-#1892 Non-Chalking White

LABORATORY NO. 1-W-122-B

CONSISTENCY

POST CLASS. DATE 5/9/57*

FOR USE ON

STRAINER GRIND 4

CUSTOMER This is 1-W-122-B also Y-1882-A & Y-5022-B

MILL Pebble WT. OR BE 14#

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH		
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.
W-170		3			200	
W-33		2	4		150	
W-63		8			525	
CH-185			1		4	
W-195			3/8		1-1/2	
O-132	4-1/2			37		
O-62	3/8			3		
O-286	1-1/4			10-1/4		
S-43	1-1/8			9-1/4		
S-148	3/4			6		
VM-432			2-1/2	1-1/4		
VM-433			1/4		17 Lbs.	
M-455			1/4 Lbs.			
*DESTROY COPY DATED 5/1/57.						
YIELD	1.52			100		

Standard Formula
Not to be taken
from File

IS AGITATOR REQUIRED

VISC. F.B. 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN

A. D. TO RECOAT IN

CATALYST

AMT. OF CATALYST

POT LIFE TEMP.

STABILITY AT 200° F

STABILITY AT 135° F

STABILITY AT ° F

REMARKS

FORMULATOR J.E. Southwick

28-8-8

GLD060759

COST	DATE	ANALYSIS		CUSTOMERS Y-1892
		PIGMENT 63.5 %		Endurance House Paint
		VEHICLE 36.5 %		#1892 Non-Chalking White
		100.0%		
				5/1/57
		PIGMENT		
		Titanium Dioxide	22.5%	Y-Index Label Lot 5 yes
		Zinc Oxide	17.0	Does 7-15-57
		Calcium Carbonate	60.4	
			100.0%	
		VEHICLE		
		Treated Linseed Oil	78.8%	
		Mineral Spirit & Driers	21.2	
			100.0%	
		Y-1892	6501	

GLD060760

GLIDDEN ACO-H PAINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1892-A

GOODS: Endurance House Paint -#1892 Non-Chalking White LABORATORY NO.

CONSISTENCY COST CLASS: DATE 10/20/57*

~~EXCEPT~~ Also 1-W-122-C, Y-1882-B & Y-5022-C STRAINER GRIND 3-4

CUSTOMER MILL Pebble WT. OR BE 14.1#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-170 W-208		3			200	
W-33		2	4		150	
W-63		8	10		565	
GH-185			1-1/4		5	
W-195			3/4		3	
S-72 (in grind)			3/8 Loz.	.20		
O-132	4-1/2			37		
O-62	3/8			3		
O-286	1-1/4			10.2		
S-43	1-1/2			12.2		
S-148	3/8			3		
VM-432			2-1/2 Loz)	1.2		
VM-433			1/4			17 Loz.
M-455			1/4 Loz.			17 Loz.

Minimum viscosity before M-455 is added must be 82 KU.

YIELD	1.53			100		

IS AGITATOR REQUIRED

VISC. F.B. 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING? TUMBLING

DIPPING? DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 48 hrs.

REMARKS: Changed to eliminate sagging.

DO NOT OVERGRIND

**DESTROY COPY DATED - 10/9/57

FORMULATOR J.E. Southwick

28-9

Standard Formula
Not to be taken from file

GLD060761

COST	DATE	ANALYSIS		CUSTOMER Y-1892-A
		PIGMENT 65 %		Endurance House Paint
		VEHICLE 35 %		#1892 Non-Chalking White
		100.0%		
				5/1/57
		PIGMENT		
		Titanium Dioxide	42.5%	
		Zinc Oxide	17.0	No change in Analysis
		Calcium Carbonate	40.5	
			100.0%	J Finkelstein 5-2-57
		VEHICLE		
		Refined Linseed Oil	78.5%	
		Mineral Spirit & Driers	21.5	
			100.0%	
		Y-1892	6501	

GLD060762

G. KODEN 488-N PRINTED IN U.S.A. FRONT

FORMULA RECORD TRIM

FORMULA NO. Y-1892-A

GOODS Endurance House Paint -#1892 Non-Chalking White LABORATORY NO.

CONSISTENCY COST CLASS. DATE 10/9/57

REMARKS Also 1-W-122-C, Y-1882-B & Y-5022-C STRAINER GRIND 3-4

CUSTOMER MILL Pebble WT. OR BE 14.1#

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH		
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.
W-170		3			200	
W-33		2	4		150	
W-63		8	10		565	
OR-185			1-1/4		5	
W-195			3/4		3	
S-62(in grind)			3/8 Loz.	.20		
O-132	4-1/2			37		
O-62	3/8			3		
O-286	1-1/4			10.2		
S-43	1-1/2			12.2		
S-148	3/8			3		
VM-432			2-1/2 Loz)	1.2		
VM-433			1/4			17 Loz.
M-455			1/4 Loz.			17 Loz.
YIELD	1.53			100		

Minimum viscosity before M-455 is added must be 82 KU.

Standard formula Not to be taken from Flow Test

IS AGITATOR REQUIRED

VISC. F.S. 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

WT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 48 hrs.

REMARKS: Changed to eliminate sagging.

DO NOT OVERGRIND

FORMULATOR J.B. Southwick 28-9

GLD060763

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-A
		PIGMENT 63.5 %		Endurance House Paint
		VEHICLE 36.5 %		#1892 Non-Chalking White
		100.0%		
				5/1/57
		PIGMENT		
		Titanium Dioxide	22.6%	
		Zinc Oxide	17.0	No change in analysis
		Calcium Carbonate	60.4	
			100.0%	"Y" Trade Sales Lot
				12-11-57
		VEHICLE		
		Treated Linseed Oil	78.9%	
		Mineral Spirit & Driers	21.1	
			100.0%	
		Y-1892	6501	

GLD060764

FORM 400-H PRINTED IN U.S.A. FROM

FORMULA RECORD TRIM FORMULA NO. Y-1892-A

GOOD: Endurance House Paint -#1892 Non-Chalking White LABORATORY NO.

CONSISTENCY COST CLASS: DATE 11/5/57 **

REMARKS: Also 1-W-122-C, Y-1882-B & Y-5022-C STRAINER GRIND 3-4

CUSTOMER MILL Pebble WT. OR BE 14.1#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208		3			200	
[illegible]-33		2	4		150	
[illegible]-03		8	10		565	
[illegible]-185			1-1/4		5	
[illegible]-196			3/4		3	
[illegible]-72 (in grind)			3/8 Loz.	.20		
[illegible]-132	4-1/2			37		
O-62	3/8			3		
O-286	1-1/4			10.2		
S-43	1-1/2			12.2		
S-148	3/8			3		
VM-432			2-1/2 Loz.	1.2		
VM-433			1/4 "			17 Loz.
M-455			1/4 Loz.			17 Loz.
Minimum viscosity before M-455 is added must be 82 KU.						
YIELD	1.53			100		

Standard Formula. Not to be taken from file

* per TM 5 12-3-57

IS AGITATOR REQUIRED

VISC. F.S. 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 48 hrs.

REMARKS:

Formula 10/20/57 reissued to use Glidden W-208. DO NOT OVERGRIND

FORMULATOR W. B. Southwick 28-9

GLD060765

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-A
		PIGMENT 33.5 %		Endurance House Paint
		VEHICLE 35.5 %		#1892 Non-Chalking White
		100.0%		11/5/57
		PIGMENT		
		Titanium Dioxide	22.64	
		Zinc Oxide	17.0	No change in analysis
		Extender Pigments	60.4	
			100.0%	Y Trade Sales Ex. Lost 11-12-57
				Cuba 6-10-58
		VEHICLE		Portland-via-d Penn 6-17-58
		Treated Linseed Oil	78.8%	
		Mineral Spirits & Driers	21.2	
			100.0%	
		Y-1892	6501	

GLD060766

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FORMULA RECORD

FORMULA NO. Y-1892-A

GOODS Endurance House Paint-#1892 Non-Chalking Trim-White

LABORATORY NO.

CONSISTENCY

COST CLASS

DATE 10/30/58**

FOR Also I-W-122-C, Y-1882-B & Y-5022-C

STRAINER

GRIND 3-4

CUSTOMER

MILL Pebble

WT. OR BE 14.1#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208		3			200	
W-33		2	4		150	
W-63		8	10		565	
OH-185			1-1/4		5	
W-195			3/4		3	
S-72 (in grind)			3/8 Loz)	.20		
O-132	4-1/2			37		
O-62	3/8			3		
O-286	1-1/4			10.2		
S-43	1-1/2			12.2		
S-148	3/8			3.0		
VM-432			2-1/2 Loz)	1.2		
VM-433			1/4 Loz)		17 Loz.	
M-455			1/4 Loz.		17 Loz.	
YIELD	1.53			100		

Minimum viscosity before M-455 is added must be 82 KU.

"DO NOT OVERGRIND"

Standard Formula Not to be taken from File

IS AGITATOR REQUIRED

VISC. F.B. 87-92 KU

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 48 hrs.

REMARKS:

**Formula reissued to show change in analysis.

FORMULATOR J. Southwick

28-9

GLD060767

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-A
		PIGMENT 64.5 %		
		VEHICLE 35.5 %		"Y" Enamel T.S.Wa Int 11-4-58
		100.0%		West Indies) 11-24-5
				Curaçao 3-12-59
		PIGMENT		Guatemala 8-24-
		Titanium Dioxide	21.8%	West Indies 1-19-59
		Zinc Oxide	16.3	Paul Montano 7-19-
		Calcium Carbonate	61.9	
			100.0%	
				J Kahn (C) 5-26-60
				Roberts (SF) 9-2-60
				Gp Marco 4-6-60
		VEHICLE		
		Treated Linseed Oil	78.8%	
		Mineral Spirits & Driers	21.2	
			100.0%	
		Y-1892 8501		

GLD060768

FORMULA RECORD

FORMULA NO. Y-1892-B

GOODS Endurance House Paint #1892

CONSISTENCY Non-Chalking White

FOR USE ON

CUSTOMER No. 1 Label Warning

LABORATORY NO.

COST CLASS. DATE 2/27/61

STRAINER GRIND 3-4

MILL Pebble WT. OR SE 14.0#

IS AGITATOR REQUIRED

VISC. F.B. 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 0.N.

A. D. TO RECOAT IN 48 hrs

REMARKS: Change to eliminate dough balls & O-62

85% Mill Base

86.3% N.V. by Volume

Wt/per gal. mill base #15.2

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
V-208				(5.68)	196	
W-33				(3.10)	144	
W-63				(24.80)	560	
CR-185				(.45)	4	
W-218				(.17)	2.5	
S-72				.15	(1.0)	
O-132 (25 gal. in grind)				36.5	(284.0)	
O-286 (13.6 gal. in grind)				13.6	(110.0)	
S-43 (10.8 gal. in grind)				10.8	(70.5)	
S-148				2.9	(19.2)	
VM-432				1.2	(11.4)	
D-68				.5	(3.5)	
M-455 (Hold for viscosity KU check.)				.12 Gal		
Minimum viscosity 84 KU before adding M-455.						
YIELD				100.05	1406.1	

Standard formula file. No. taken

GLD060769

COST	DATE	ANALYSIS	CUSTOMERS Y-1892-B
		PIGMENT 64.0 %	Endurance House Paint #1892
		VEHICLE 36.0 %	Non Chalking White
		100.0%	2/27/61
		PIGMENT	
		Titanium Dioxide 21.7%	
		Zinc Oxide 18.0	
		Calcium Carbonate 62.3	No. 1 Label Warning
		100.0%	
			One Y-Exempt Lot 3-1-
			Plants 2-1-2-4-5-10-14-8
			11 & 19
		VEHICLE	
		Treated Linseed Oil	79.0% Cochrane 3-8-61
		Mineral Spirits & Driers	21.0 Manco 3-8-61
			100.0% Weld Mate 3-8-61
			Y-Exempt Lot
			Plants
		Y-1892 162	

GLD060770

COST	DATE	ANALYSIS	CUSTOMERS Y-1892-B
		PIGMENT 64.0 %	Endurance House Paint - #1892
		VEHICLE 36.0 %	Non Chalking White
		100.0%	
			2/27/61
		PIGMENT	
		Titanium Dioxide 21.7%	
		Zinc Oxide 16.0	
		Calcium Carbonate 62.3	No. 1 Label Warning
		100.0%	
			On Y-Enamel List 3-3-61
			Plants #1-2-4-5-12-14-8-11+17
		VEHICLE	
		Treated Linseed Oil	79.0% Pantasote 3-8-61
		Mineral Spirits & Driers	21.0 Monaco 3-8-61
			100.0% West Indies 3-8-61
			Y-Enamel List [illegible]
			Plant [illegible]
		Y-1892 .162	

GLD060771

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FORMULA RECORD

BASE

FORMULA NO. V-1892-C(Cowles)

GOODS Endurance House Paint -#1892 Non-Chalking White

LABORATORY NO. Morehouse

CONSISTENCY

COST CLASS. DATE 8/10/61

FOR USE ON

STRAINER GRIND 3-4

CUSTOMER Less than 1% Lead

GRINDER Cowles- WT. OR BE 14.0#

IS AGITATOR REQUIRED Morehouse

VISC. F.B. 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. 92.8% FLASH PT. 100°F

BATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

THINNING DISCONTINUED

DRYING DRY TIME

BAKE OFF TEMP.

SEE V-1892-A

AIR DRIES IN Overnight

A. D. TO RECOAT IN 48 hrs.

REMARKS: Changed to add mildewcide & to show Cowles procedure. 60.3% NV by Vol. 39.6% PVC

FORMULATOR J.E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Add in order listed:						
R-200				33.6	(110.0)	
R-192				13.6	(106.0)	
R-185				(.45)	4.0	
R-211				(.17)	2.5	
R-200				(5.68)	196.0	
Disperse 10 min. then add:						
R-192				12.9	(100.0)	
R-33				(3.1)	144.0	
R-65				(24.8)	560.0	
Mix to 3-4 grind & add:						
R-192				10.0	(78)	
Morehouse to clean 3-4 grind:						
S-43				10.8	(70.5)	
S-148				2.9	(19.2)	
VR-432				1.2	(11.4)	
VR-434				.14	(.9)	
VM-659				.5	(4.0)	
S-9				.15	(1.0)	
R-432 (Hold for viscosity check)				.12		
YIELD				100.1	1407.5	

Not to be taken from File

GLD060772

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	Hesse (Texas) 8-30-61 @
		VEHICLE %	
			Warning No - 11-62 11-16-6
		PIGMENT	NPVLA
			Dre Y Enamel Test 9-26-61
			Plants # 1-2-4-5-8-12-14-+1
		VEHICLE	

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FORMULA RECORD

FORMULA NO. V-1892-0

Industrial Finish Paint #1892 Non-Chalking

Long Chain Oil Type

CODE NUMBER	PER 100 GAL.	LBS.	GAL.	CHECK BATCH GALS.	LBS.	CES.
V-558			5.68		155.0	
V-33			3.10		144.0	
V-52			24.80		565.0	
V-185			0.55		8.0	
V-213 Pigment			0.17		2.5	
V-72			15		(1.0)	
V-132	35.0 gals. in grind		35.5		(584.0)	
V-266	11.6 gals. in grind		11.5		(190.0)	
V-13	10.8 gals. in grind		10.8		(178.5)	
V-148			2.9		(49.2)	
V-132			1.2		(19.2)	
V-66			0.50		8.0	
V-589			0.50		(4.0)	
V-57	Solid Constituents by check		19			
	Sieve necessary 84 MX before adding V-552					
			100.59		1410.1	

Lbs. per gallon As needed

Thinner V-1821-0

Changed to add Mildew resistance.

Mill Base

15.28 lbs/gal. Mill Base

34 gy-by Vol.

26 PVC

Southwick

GLD060776

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FORMULA RECORD

GOODS: Endurance House Paint -#1892 Non-Chalking White

CONSISTENCY:

FOR USE ON:

CUSTOMER: Less than 1% Lead

FORMULA NO.: Y-1892-0

LABORATORY NO.:

COST CLASS: DATE 4/21/61

STRAINER: GRIND 3-4

MILL Pebble WT. OR BE 14#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(5.68)	196.0	
W-33				3.10)	144.0	
W-69				(24.80)	560.0	
CH-185				0.45)	4.0	
W-218) Pre-Mix				0.37)	2.5	
S-72)				.15	(1.0)	
O-132(25.0 gals. in grind)				35.5	(284.0)	
O-286(13.6 gals. in grind)				13.6	(110.0)	
S-43 (10.8 gals. in grind)				10.8	(70.5)	
S-143				2.9	(19.2)	
VM-432				1.2	(11.4)	
D-68				0.50	(3.5)	
VM-659				0.50	(4.0)	
M-455 (Hold for viscosity				.12		
check.)						
Minimum viscosity 84 KU before adding M-455.						
YIELD				100.55	1410.1	

IS AGITATOR REQUIRED

VISC. F.& 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. 62.8% FLASH PT 100 F

CWATCH FOR

REDUCER S-43

WT. FOR BRUSHING As needed

SPRAYING DISCONTINUED

DIPPING DRIP TIME

BAKE TEMP.

SEE Y-1892-A

AIR DRIES IN 0 H.

A. D. TO RECOAT IN 48 hrs.

REMARKS: Changed to add mildew resistance.

86% Mill Base

15.2# wt/gal. Mill Base

56.3% NV by Vol.

39.6% PVC

FORMULATOR J.E. Southwick

GLD060777

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-C
		PIGMENT 63.5 %		Endurance House Paint - #1892
		VEHICLE 36.5 %		Non Chalking White
		100.0%		
				4/21/61
		PIGMENT		
		Titanium Dioxide	22.6%	No~~rmal Label~~ Warning 9a. 11-62
		Zinc Oxide	17.0	NPLA 11-16-62
		Calcium Carbonate	60.4	No change in analysis
			100.0%	
				Contains added fungicide to make this paint resistant to the action of Mildew Fungi growing in or on the paint.
		VEHICLE		Resistant to Mildew On The
		Treated Linseed Oil	78.8%	Paint Film Only.
		Mineral Spirits & Driers	21.2	
			100.0%	Di (Phenyl-Mercury)-
		Cimcat Copy Sent		Dodecenyl Succinate .07%
		to Raybuck 2		Inert Ingredients 99.93
Sek Japan		3-16-62 @ 4-20-62		100.00%
				Guatemala - Mexico West India Strike
				Y Enamel List 4-27-62
				Plant #1-2-4-5-12-14-8-11-17-7+15
		Y-1892	6501	

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FORMULA RECORD

FORMULA NO. Y-1892-B

GOODS Endurance House Paint - #1892 Non-Chalking LABORATORY NO. 1855

CONSISTENCY White COST CLASS DATE 12/5/62

FOR USE ON XX Reissued to use Tallatex & replace S-72. STRAINER GRIND 3-4

CUSTOMER Mfg. at plants #1-2-4-5-8-11-12-14-15-16-17 MILL Pebble WT. OR BE 144

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(5.63)	195.0	
W-33				(3.10)	144.0	
W-63				(24.84)	560.0	
CR-185				(0.45)	4.0	
W-218)	Premix			(0.17)	2.5	
S-91)				.19	(1.25)	
O-132	(25.0 gals. in grind)			36.5	(284.0)	
O-286	(13.6 gals. in grind)			13.6	(110.0)	
S-43	(10.8 gals. in grind)			11.13	(72.3)	
S-148				2.9	(19.2)	
VM-432	Standard Formula, Not to be taken from file.			1.2	(11.4)	
VM-534				0.13	(1.04)	
VM-659				0.50	(4.0)	
M-455	(Hold for viscosity check.			0.12		
Minimum viscosity 84 KU before adding M-455.						
YIELD				100.55	1406.	

DISCONTINUED

SEE Y-1892-E

IS AGITATOR REQUIRED

VISC. F. B. 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR Color SHEEN

NON VOL. 32.8% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 48 hrs.

REMARKS:

Mill Base 45%

Mill Base wt/gal. 15.2#

NV by Vol. 34.3%

PVC 39.6%

FORMULATOR J. E. Southwick

GLD060781

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-D
		PIGMENT 63.5 %		Endurance House Paint - #1892
		VEHICLE 36.5 %		Non-Chalking White
		100.0%		
				12/5/62
		PIGMENT		
		Titanium Dioxide	22.6%	Warning No. 11-62 MFVLA
		Zinc Oxide	17.0	(11/16/62)
		Calcium Carbonate	60.4	
			100.0%	Contains added fungicide to make
				this paint resistant to the
				action of Mildew Fungi growing
				in or on the paint.
				Resistant to Mildew On The
		VEHICLE		Paint Film Only.
		Treated Linseed Oil	78.8%	
		Mineral Spirits & Driers	21.2	Di(Phenyl-Mercury)-
			100.0%	Dodecenyl Succinate .07%
				Inert Ingredients 99.93
				100.00%
		West Indies 1-7-65		Y-Enamel Lab 2-28-63
				# 1-2-4-5-8-11-13 Jul 12-16-63
				Sask. Japan 1-31-64
				Mex 2-21-64 FMC
				West Indies 3-3-64
				Guatemala 3-9-64
		Y-1892	6501	Manila 4-3-64

GLD060782

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FORMULA RECORD

FORMULA NO. V-1892-D(Cocoa-Morehouse)

GOODS Endurance House Paint - #1892 Non-Chalking White

LABORATORY NO. Morehouse)

CONSISTENCY

COST CLASS 8455 DATE 10/5/62

FOR USE ON xx Mfg. 22 plants #1-2-4-5-8-11-12-14-15-16-17

STRAINER GRIND 3-4

CUSTOMER xx Switched to use Tallaten & replace S-72.

MILL (Cocoa- WT. OR BE 14.0#

CODE NUMBER	ONE GALLON BATCH			LARGE BATCH		
	PINTS	LBS.	OZS.	GALS.	LBS.	OZS.
	Add in order listed:					
O-285				13.6	(110.0)	
O-132				13.6	(106.0)	
OH-185				(.45)	4.0	
W-218				(.17)	2.5	
W-208				(5.68)	196.0	
	Disperse 10 min. then add:					
O-132				12.9	(100.0)	
W-33				(3.1)	144.0	
W-63				(24.8)	560.0	
	Mix to 3-4 grind & add:					
O-132				10.0	(78.0)	
	Morehouse to clean 3-4			grind		
S-43	Standard formula Not to be taken from file.			10.8	(70.5)	
S-148				2.9	(19.2)	
VM-432				1.2	(11.4)	
VM-534				.14	(.9)	
VM-659				.5	(4.0)	
S-91				.15	(1.0)	
W-455	(Hold for viscosity check)			.12		
YIELD				100.1	1407.5	

IS AGITATOR REQUIRED Morehouse)

VISC. F. B. 87-92 TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN

NON VOL. 92.8% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING As needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 48 hrs.

REMARKS:

NV by Vol. 85.2%

PVC 39.6%

FORMULATOR J. E. Southwick

GLD060783

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-D
		PIGMENT 63.5 %		Endurance House Paint - #1892
		VEHICLE 36.5 %		Non-Chalking White
		100.0%		
				12/5/62
		PIGMENT		
		Titanium Dioxide	22.6%	Warning No. 11-62 NPVLA
		Zinc Oxide	17.0	(11/16/62)
		Calcium Carbonate	60.4	
			100.0%	Contains added fungicide to make
				this paint resistant to the
				action of Mildew Fungi growing
				in or on the paint.
				Resistant to Mildew On The
		VEHICLE		Paint Film Only.
		Treated Linseed Oil	78.8%	
		Mineral Spirits & Driers	21.2	Di(Phenyl-Mercury)-
			100.0%	Dodecenyl Succinate .07%
				Inert Ingredients 99.93
				100.00%
				Y Enamel List 10-27-60
				E 1-2-4-5-8-11-12-14-15-16-17
		Y-1892	6501	

GLD060784

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FORMULA RECORD SEE SAN FRANCISCO-SPECIAL Y-1892

FORMULA NO. V-1892-E-1

GOODS Endurance House Paint - #1892 Non-Chalking White

LABORATORY NO. Base

CONSISTENCY

COST CLASS DATE 1/5/65

FOR USE ONCX Mfg. plants #1-2-5-11-12-17

STRAINER GRIND 3-4

CUSTOMER More than 1% Lead

MIL Pebble or WT. OR BE 14.2#

IS AGITATOR PISMORE Morehouse or

VISC. F. 87-92 KU TEMP Attritor

VISC. REQ. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN Gloss

NON VOL. 88.2% (Wt) FLASH PT. 100°F

MATCH FOR

REDUCER S-43

ART. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN O.N.

A. D. TO RECOAT IN 48 hrs.

REMARKS: Changed to improve brushing and to decrease flashing

NV by Vol. 74.9%

PVC 43.7%

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-180				(13.90)	377.0	
W-208				(2.33)	80.0	
W-35				(3.97)	186.0	
W-188				(4.02)	95.0	
W-121				(7.76)	175.0	
W-282				(0.76)	15.0	
CH-475				0.42	(3.4)	
WM-432				1.20	(11.6)	
O-314				6.71	(50.5)	
O-9				4.76	(37.4)	
O-220				8.04	(63.6)	
O-1				25.01	(194.5)	
S-43				16.55	(107.5)	
S-148				3.84	(25.3)	
WM-523				0.15	(1.2)	
WM-534				0.13	(1.0)	
WM-659				0.50	(4.0)	
(.05 - .15 gal. of M-186 may be used to adjust body if needed.)						
YIELD				100.05	1427.9	

Standard Formula Not to be taken from File

DISCONTINUED 1-65

GLD060785

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-E-1
		PIGMENT 65 %		Endurance House Paint -
		VEHICLE 35 %		#1892 Non-Chalking White
		100%		1/5/65
		PIGMENT		
		Titanium Calcium	40.7%	Warning No. 14-62 NFVLA
		12% Leaded Zinc Oxide	20.0	
		Titanium Dioxide	8.6	Contains added fungicide to make
		Calcium Carbonate	18.0	this paint resistant to the action
		Magnesium Silicate	11.6	of Mildew Fungi growing in or on
			100.0%	the paint.
				Resistant to Mildew on the Paint
				Film Only.
		VEHICLE		
		Treated Soya Oil	7.1%	Di(Phenyl Mercury)
		Treated Linseed Oil	59.0	Dodecenyl Succinate .05%
		Mineral Spirits & Driers	33.9	Inert Ingredients 99.94
			100.0%	100.00%
		W. Indies 3-22-65 P		Y Paint Dist 1-14-65 D
		Mexico 3-23-65 P		1-2-5-11-12-17-30
		Ludowici 4-21-65 D		Plants #1-2-5-11-12-17
		Manila 6-16-65 D		
		Sal Japan 6-18-65 D		Wm R Hennessey 3-1-65
		Y-1892 501		

GLD060786

GLIDDEN 4004 PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS Endurance House Paint - #1892 Non-Chalking White

CONSISTENCY

FOR USE ON Plants #4-16-8

CUSTOMER Less than 1% Lead

FORMULA NO. Y-1892-E-2

LABORATORY NO. [illegible]

COST CLASS DATE 1/5/65

STRAINER GRIND 3-4

MILL Pebble or WT. OR BE 14.2

IS AGITATOR ~~Cowles~~ Morehouse or Attritor

VISC. F. B. 87-92 KU EM

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN Gloss

NON VOL 33.2% (Wt) FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIED IN O.N.

R. D. TO RECOAT IN 48 hrs.

REMARKS Changed to improve brushing & to decrease flashing.

NV by Vol. - 74.9%

PVC - 43.7

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-180				(13.90)	377.0	
W-208				(2.33)	80.0	
W-294				(3.97)	186.0	
W-188				(4.02)	95.0	
W-121				(7.76)	175.0	
W-282				(0.76)	15.0	
CR-475				0.42	(3.4)	
VM-432				1.20	(11.6)	
O-314				6.71	(50.5)	
O-9				4.76	(37.4)	
O-220				8.04	(63.6)	
O-1				25.01	(194.5)	
S-43				16.55	(107.5)	
S-148				3.84	(25.3)	
VM-572				0.15	(1.2)	
VM-534				0.13	(1.0)	
VM-559				0.50	(4.0)	
(.05 - .15 gal. of N-486 may be used to adjust body if needed.)						
YIELD				100.05	1427.9	

DISCONTINUED

Standard formula. Not to be taken from file.

GLD060787

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-E-2
		PIGMENT 65 %		Endurance House Paint -
		VEHICLE 35 %		#1892 Non-Chalking White
		100 %		1/5/65
		PIGMENT		
		Titanium Calcium	40.7%	
		Titanium Dioxide	8.6	Warning No. 11-62 MFVLA
		Zinc Oxide	20.0	
		Calcium Carbonate	18.9	Contains added fungicide to make
		Magnesium Silicate	11.8	this paint resistant to the actio
			100.0%	of Mildew Fungi growing in or on
				the paint.
				Resistant to Mildew on the Paint
		VEHICLE		Film Only.
		Treated Soya Oil	7.1%	
		Treated Linseed Oil	59.0	Di(Phenyl-Mercury)
		Mineral Spirits & Driers	33.9	Dodecenyl Succinate .06%
			100.0%	Inert Ingredients 99.94
				100.00%
				Plants #4-15-8
				Y-Paint List 1-13-65 C
				#4-8-16-30
		Y-1892 561		

GLD060788

BLODGETT 360-B PRINTED IN U.S.A. FRONT

FORMULA RECORD

506 SPECIAL CAN PLANT FORM

FORMULA NO. Y-1892-F-1

GOODS Endurance House Paint - #1892 Non-Chalking White

LABORATORY NO. 8468

CONSISTENCY

COST CLASS

DATE 6/23/65

FOR USE ON Mfg. plants #1-2-5-11-12-17

STRAINER

GRIND 4

CUSTOMER More than 1% Lead

MILL Pebble or

WT. OR BE 14#

IS AGITATION REQUIRED Morehouse

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-290				5.80	200.0	
W-35				4.07	190.0	
W-121				13.30	300.0	
W-188				8.50	200.0	
W-282				0.76	15.0	
CH-475				0.42	3.4	
VM-432				1.20	11.6	
O-314				6.80	51.1	
O-9				4.80	37.8	
V-869				6.90	53.5	
O-1				29.10	226.0	
S-43				14.20	92.3	
S-148				3.90	25.7	
VM-534				0.15	1.2	
VM-523				0.13	1.0	
VM-659				0.5	4.0	
YIELD				100.03	1408.6	

Standard Formula. Not to be taken from File

DISCONTINUED 7/1/68 SEE Y-1892-F-2

VISC. F. B. 87-92 TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN Gloss

NON VOL. 88% FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 48 hrs.

REMARKS: Changed to use Hidden pigments.

NV by Vol.-74.7%

P.V.C. -43.4%

FORMULATOR J. E. Southwick

GLD060789

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-F-
		PIGMENT 64.4 %		Endurance House Paint - #1892
		VEHICLE 35.6 %		Non-Chalking White
		100.0%		6/23/65
		PIGMENT		Warning No. 14-62 NPVLA
		Titanium Dioxide	22.1%	
		12% Leaded Zinc Oxide	21.0%	
		Calcium Carbonate	33.2%	Mfg. plants #1-2-5-11-12-17
		Magnesium Silicates	23.7%	
			100.0%	Contains added fungicide to make this paint resistant to the acti of Mildew Fungi growing in or on the paint.
		VEHICLE		Resistant to Mildew on The Paint
		Soya Alkyd Resin	16.5%	Film Only.
		Treated Linseed Oil	52.4%	
		Mineral Spirits & Driers	31.1%	DI (Phenyl-Mercury) Dodecenyl Succinate 0.06
			100.0	Inert Ingredients 99.94
		Manila 11-10-65 D		#30 (Dress + Forte) 6-24-65 100.00
		#30 (Florida) 2-24-66		Y Paint Lot 7-9-65 D
				#1-2-5-11-12-17-30
				Lek. Japan 10-8-65 D
				W. Germany 10-11-65 D
		Y-1892-1 565		Mexico 11-3-65 D
				Guatemala 11-8-65 D

GLD060790

FORMULA RECORD

FORMULA NO. Y-1892-F-2 Base

GOODS Endurance House Paint - #1892 Non-Chalking White

LABORATORY NO.

CONSISTENCY

COST CLASS DATE 5/23/65

FOR USE ON Mfg. plants #4-8-16

STRAINER GRIND 4

CUSTOMER Less than 1% Lead

MIX Pebble or WT. OR BE 14

IS AGITATOR Explosion Proof Morehouse

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-290				5.80	200.0	
W-294				4.07	190.0	
W-121				13.30	300.0	
W-188				8.50	200.0	
W-282				0.76	15.0	
CH-475				0.42	3.4	
VM-432				1.20	11.6	
O-314				6.80	51.1	
O-9				4.80	37.8	
V-869				6.90	53.5	
O-1				29.10	226.0	
S-43				13.70	89.0	
S-148				3.90	25.7	
VM-534				0.15	1.2	
VM-523				0.13	1.0	
VM-659				0.50	4.1	
YIELD				100.03	1409.4	

Standard Formula Not to be taken From File.

VISC. F. 87-92 KU TEMP.

VISC. RED. TEMP.

VISCOSIMETER Stormer

COLOR SHEEN Gloss

NON VOL. 88% (Wt) FLASH PT. 100°F

MATCH FOR

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN Overnight

A. D. TO RECOAT IN 24 hrs.

REMARKS: Changed to use Glidden pigments.

NV by Vol. - 74.7%

PVC - 43.4%

FORMULATOR J. E. Southwick

GLD060791

COST	DATE	ANALYSIS		CUSTOMERS Y-1892-F-2
		PIGMENT 64.4 %		Endurance House Paint - #1892
		VEHICLE 35.6 %		Non-Chalking White
		100.0%		
				6/23/65
		PIGMENT		
		Titanium Dioxide	22.1%	Warning No. 11-62 MPVLA
		Zinc Oxide	21.0%	
		Calcium Carbonate	33.2%	Contains added fungicide to mak
		Magnesium Silicates	23.7%	this paint resistant to the act
			100.0%	of Mildew Fungi growing in or
				on the paint.
				Resistant to Mildew on The Paint
				Film Only.
		VEHICLE		
		Soya Alkyd Resin	16.5%	Di (Phenyl-Mercury)
		Treated Linseed Oil	52.4%	Dodecenyl Succinate 0.06%
		Mineral Spirits &		Inert Ingredients 99.94%
		Driers	31.1%	100.00%
			100.0%	
				Mfg. plants #4-8-16
				#30 (Dixon-Foster) 6-28-65
				4 Paint Last 7-9-65
				= 4-8-16-30
				#30 (Thurston) 2-24-66
		Y-1892-2	566	

GLD060792

Glidden Form 1109-1 Printed in U.S.A. 4/65

C & R FORMULA

Product **Endurance House Paint - #1892 Non-Chalking**

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-180	12.00	325.0		
W-290	2.91	100.0		
W-35	4.26	200.6		
W-121	13.29	300.0		
W-282	0.76	15.0		
CR-475	0.42	3.4		
VM-432	1.20	11.6		
VM-523	0.15	1.2		
O-314	6.80	51.1		
O-9	4.80	37.8		
V-863	6.90	53.5		
O-1	29.50	229.0		
S-43	12.50	81.2		
S-148	3.90	25.7		
VM-534	0.13	1.0		
VM-659	0.30	2.1		
Yield	100.02	1439.6		

Standard formula. Do not to be taken from file.

Formula Number Y-1892-G-1

Laboratory Number 8A8F

Rxxx Warehouse Date 7/20/66

Mill Pebble-Cowles Load 3-4

NPVLA % Lead None than 1%

Label Warning 14-62 METHOD

Wt./Gal. 14.3# 5-A-1

Flash Pt. °F 100

N.V.Wt. 89.6

N.V.Vol. 77.9

Visc. F.S. 90-95 4-C-1

Visc. Red.

Reducer Ratio

P.V.C. 42.6 pH

Color White Match

Gloss 60 min. Method

Strainer

Container

Application Brush

Cure Overnight

Recoat: 48 hrs.

Remarks Changed to improve sag control.

Formulator Green/Southwick

Approved by S. Bowell

GLD060793

Glidden Form 1139-1 (back) Printed in U.S.A. 4/56 C & R FORMULA

CLASS					
CODES					

DESCRIPTORS (20 spaces-limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes [ ] No [X] Silicone Yes [ ] No [X]

Resins Soya Alkyd, Treated Linseed Oil

Color Gloss

For Use On

Resistance

Manufactured at Plant #1-2-5-11-12-17 8-3-66

Stamped #4-8-14-15-16 8-3-66

Manufacturing Instructions or Remarks

~~Dt (Phenyl Mercury)~~
Dodecenyl Succinate 0.0%
Inert Ingredients 99.94%
100.00%

Date 7/20/66 Formula No Y-1892-0-1

Product Endurance House Paint - #1892 Non-Chalking

Label Warning #14-62 NPVLA

ANALYSIS

Pigment	65.3	%
Vehicle	34.7	%
	100.0%	

Pigment

Titanium Calcium	34.6 %
Titanium Dioxide	10.6 %
12% Leaded Zinc Oxide	21.3 %
Calcium Carbonate	33.5 %
	100.0%

St Lucia 8-8-66 (5)

Costa Rica 9-2-66 (5)

Nassau, Bhama 10-12-66 (5)

Vehicle

Soya Alkyd Resin	17.1%
Treated Linseed Oil	53.4%
Mineral Spirits & Driers	29.5%
	100.0%

to Japan, Myrtle Beach, Trinidad, St Lucia 10-5-66

Y-1892-1 667

GLD060794

Glidden Form 1139-1 Printed in U.S.A. 4/55

C & R FORMULA

Product **Endurance House Paint #1892 Non-Chalking**

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
H-180	12.00	325.0		
W-290	2.92	100.0		
W-294	4.26	200.0		
W-121	13.29	300.0		
W-282	0.76	15.0		
CH-475	0.42	3.4		
VM-432	1.20	11.6		
VM-523	0.15	1.2		
O-314	6.80	51.1		
O-9	4.80	37.8		
V-863	6.90	53.5		
O-1	29.50	229.0		
S-43	12.50	81.2		
S-148	3.90	25.7		
VM-534	0.13	1.0		
VM-659	0.50	4.1		
Yield	100.02	1439.6		

Standard Formula Not to be taken from File.

Formula Number Y-1892-0-2

Laboratory Number

Date 7/20/66

Mill Cowles- Motehouse Grind 3-4

NPVLA %Lead Less than 1%

Label Warning 11-62 METHOD

Wt./Gal.	14.3#	5-A-1
Flash Pt. °F	100	
N.V.Wt.	89.6	
N.V.Vol.	77.9	
Visc. F.	90-95	4-C-1
Visc. Red.		
Reducer		Ratio
P.V.C.	42.6	pH
Color	White	Match
Gloss	50 min.	Method
Strainer		
Container		
Application	Brush	
Cure	Overnight	
Recoat:	48 hrs.	

Remarks Changed to improve sag control.

Formulator Green/Southwick

Approved by S. Bowell

GLD060795

Glidden Form 1109-1 (back) Printed in U.S.A. 4/66 C & R FORMULA

CLASS						
CODES						

DESCRIPTORS (20 spaces—limit)

Trade Name [illegible] Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins Soya Alkyd, Treated Linseed Oil

Color Gloss

For Use On

Resistance

Manufactured at Plants #4-8-16 8-3-66 #1

Steamed

1-2-4-5-11-12-14-15-17 8-3-66

Manufacturing Instructions or Remarks

Dithiocyanic Mercury)
Dodecenyl Succinate 0.06%
Inert Ingredients 99.94%
100.00%

Date 7/20/66 Formula No. Y-1892-G-2

Product Endurance House Paint #1892 Non-Chalking

Label Warning #11-62 NPCA

ANALYSIS

Pigment	65.3	%
Vehicle	34.7	%
	100.0%	

Pigment

Titanium Calcium	34.6%
Titanium Dioxide	10.6%
Zinc Oxide	21.3%
Calcium Carbonate	33.5%
	100.0%

Vehicle

Soya Alkyd Resin	17.1%
Treated Linseed Oil	53.4%
Mineral Spirits	
Driers	29.5%
	100.0%

Y-1892-2 667

GLD060796

Glidden Form 1103-1 Printed in U.S.A. 4/65

C & R FORMULA

Product: Endurance House Paint -#1892 Non-Chalking

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-134	12.00	325.0		DISCONTINUED
W-830	2.91	100.0		REPLACED WITH
W-452	4.26	200.0		Y-1801
N-121	13.29	300.0	SEE	
E-846	0.76	15.0		
C-978	0.42	3.4		
E-342	1.20	11.6		
E-380	0.15	1.2		
P-190	6.80	51.1		
O-109	4.80	37.8		
V-2390	6.90	53.5		
O-101	29.50	229.0		
S-330	12.50	81.2		
S-348	3.90	25.7		
E-324	0.13	1.0		
E-419	0.50	4.1		
Yield	100.02	1439.6		

Standard Formula Not to be Given Out

Formula Number: Y-1892-0-1 EGGS

Laboratory Number:

Maker: WHSE Date: 3/1/67

Mill: PEBL/COWL Grind: 3-4

NPVLA: Hood 1 plus

Label Warning: 14-62 METHOD

Wt./Gal.: 14.3# 5-A-1

Flash Pt.: °F 100°

N.V.W.: 89.6%

N.V.Vol.: 77.9%

Visc. F.B: 90-95 4-C-1

Visc. Rod.

Reducer: Ratio

P.V.C. 42.6% pH

Color: White Match

Gloss: 60 min. Method

Strainer:

Container:

Application: Brush

Cure: Air Dry/ Overnight

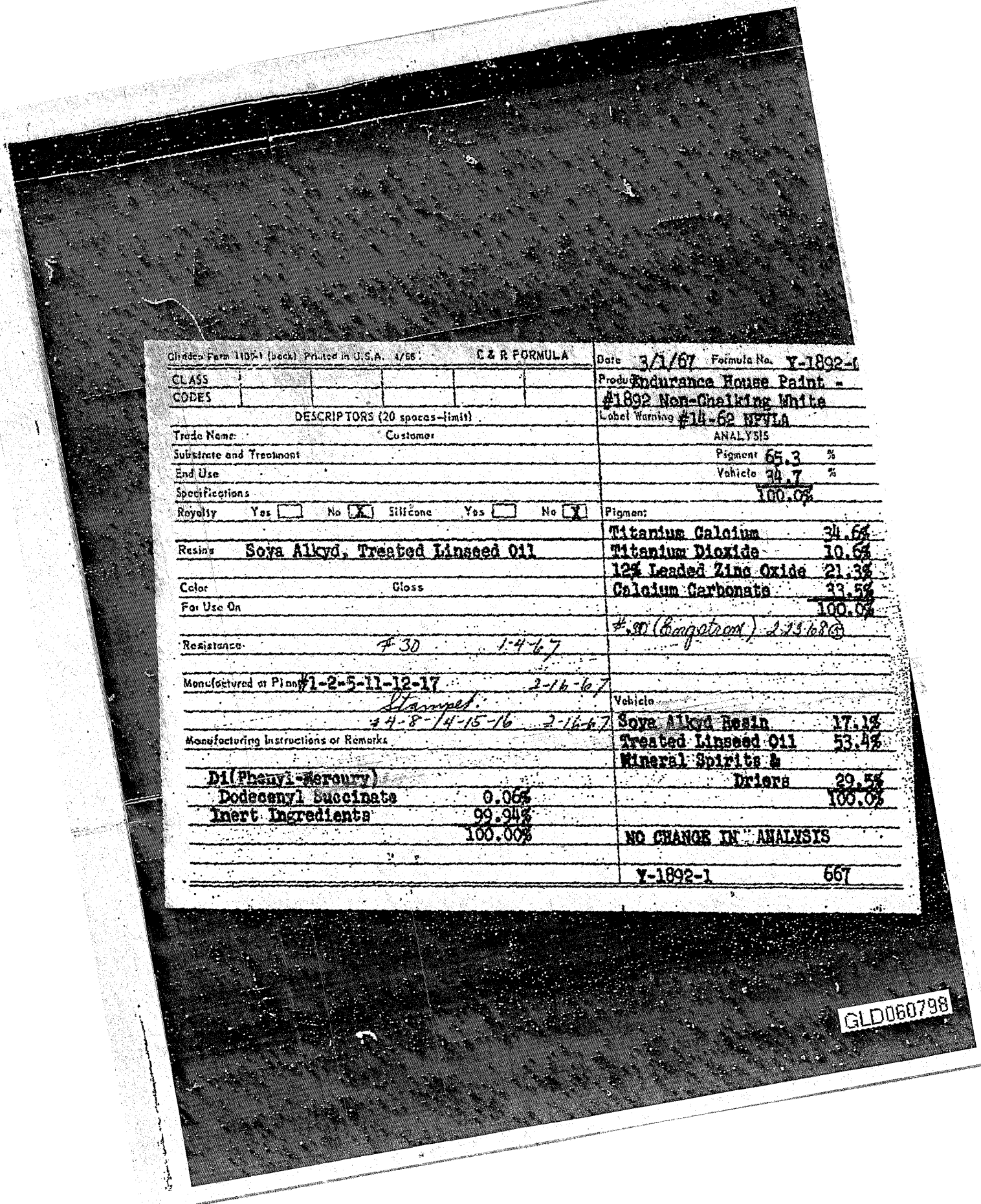
Recoat: 48 hrs.

Remarks:

Formulator: Green/Southwick

Approved by:

GLD060797



Glidden Form 1105-1 (Back) Printed in U.S.A. 4/66 — C & R FORMULA

CLASS
CODES

DESCRIPTORS (20 spaces—limit)

Trade Name: Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins: Soya Alkyd, Treated Linseed Oil

Color: Gloss

For Use On

Resistance: #30 1-4-67

Manufactured at Plant: #1-2-5-11-12-17 2-16-67
Stamped.
#4-8-14-15-16 2-16-67

Manufacturing Instructions or Remarks

Di(Phenyl-Mercury) Dodecenyl Succinate	0.06%
Inert Ingredients	99.94%
	100.00%

Date 3/1/67 Formula No. Y-1892-[illegible]

Product: Endurance House Paint - #1892 Non-Chalking White

Label Warning: #14-62 NFVLA

ANALYSIS

Pigment	65.3 %
Vehicle	34.7 %
	100.0%

Pigment:

Titanium Calcium	34.6%
Titanium Dioxide	10.6%
12% Leaded Zinc Oxide	21.3%
Calcium Carbonate	33.5%
	100.0%

#30 (Kingsford) 2-23-68

Vehicle

Soya Alkyd Resin	17.1%
Treated Linseed Oil	53.4%
Mineral Spirits & Driers	29.5%
	100.0%

NO CHANGE IN ANALYSIS

Y-1892-1 667

GLD060798

Glidden Form 1109-1 Printed in U.S.A. 4/66

C & R FORMULA

Product: Endurance House Paint - #1892 Non-Chalking

Customer:

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-134	12.00	325.0		
W-830	2.91	100.0		
W-547	4.26	200.0		
M-121	13.29	300.0		
E-846	0.76	15.0		
C-978	0.42	3.4		
E-342	1.20	11.6		
E-380	0.15	1.2		
F-190	6.80	51.1		
Q-109	4.80	37.8		
V-2390	6.90	53.5		
O-101	29.50	229.0		
S-330	12.50	81.2		
S-348	3.90	25.7		
E-324	0.13	1.0		
E-419	0.50	4.1		
Yield	100.02	1439.6		

Standard Formula Not to be taken from File

Formula Number: Y-1892-0-2

Laboratory Number:

Mfg: MHSR Date: 3/1/67

Mill: PEBL/COML Grind: 3-4

HPVLA: %Lead -1

Label Wgt. 11-62 METHOD

Wt./Gal. 14.3# 5-A-1

Flash Pt. >100

N.V.W. 89.6%

N.V.Vol. 77.9%

Visc. KU 90-95 4-C-1

Visc. Red.

Reducer Ratio

P.V.C. 42.6% pH

Color White Match

Gloss 60 min. Method

Strainer

Container

Application Brush

Cure Air Dry Overnight

Recoat: 48 hrs.

Remarks

Formulator: Green/Southwick

Approved by: Bowell

GLD060799

Glidden Form 1109-I (Back) Printed in U.S.A. 4/65 C & R FORMULA

CLASS						
CODES						

DESCRIPTORS (20 spaces—limit)

Trade Name Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes [ ] No [X] Silicone Yes [ ] No [X]

Resins Soya Alkyd, Treated Linseed Oil

Color Gloss

For Use On

Resistance

Manufactured at Plant #4-8-16 # 30 1-4-67

Manufacturing Instructions or Remarks

Di(Phenyl-Mercury) Dodecenyl Succinate	0.06%
Inert Ingredients	99.94%
	100.00%

Date 3/1/67 Formula No. Y-1892-0-2

Product Endurance House Paint - #1892 Non-Chalking White

Label Warning #11-62 NPULA

ANALYSIS

Pigment 65.3	%
Vehicle 34.7	%
100.0%	

Pigment

Titanium Calcium	34.6%
Titanium Dioxide	10.6%
Zinc Oxide	21.3%
Calcium Carbonate	33.5%
	100.0%

Vehicle

Soya Alkyd Resin	17.1%
Treated Linseed Oil	53.4%
Mineral Spirits & Driers	29.5%
	100.0%

NO CHANGE IN ANALYSIS

Y-1892-2 667

GLD060800

Glidden Form 1109-1 Printed in U.S.A. 2/57

C & R FORMULA

Product **Endurance House Paint - #1892 Non-Chalking**

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
				DISCONTINUED: REPLACED WITH Y-1801
				Per T. M. Steppart
Yield				

Standard Formula. Not to be taken from File.

Formula Number	Y-1892-0-1	
Laboratory Number		
R.M. Cost	Date	3/31/67
Mill	Grind	
NPVLA	%Lead	
Label Warning		METHOD
Wt./Gal.		
Flash Pt. °F.		
N.V.Wt.		
N.V.Vol.		
Visc. F.B.		
Visc. Red.		
Reducer	Ratio	
P.V.C.	pH	
Color	Match	
Gloss	Method	
Strainer		
Container		
Application		
AD/Bake		
Recoat Time		
Remarks		
Formulator		
Approved by		

GLD060801

Glidden Form 1100-1 (back) Printed in U.S.A. 2/67

C & R FORMULA

CLASS						
CODES						

DESCRIPTORS (20 spaces-limit)

Trade Name — Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes [ ] No [ ] Silicone Yes [ ] No [ ]

Resins

Color — Gloss

For Use On

Resistance

Manufactured at Plants

Manufacturing Instructions or Remarks

Date — Formula No.

Product

Label Warning

ANALYSIS

Pigment %

Vehicle %

Pigment

1 Pt. Test 6-8-67

#1-2-4-5-8-11-

12-14-15-16-17

Vehicle

GLD060802