Glidden Form 1139-1 Printed in U.S.A. 4/66

C & R FORMULA

Product Japalac - Bud Green

Customer

CODE NUMBER	100 GALLON BATCH GALLONS	100 GALLON BATCH POUNDS	% BY WEIGHT	MANUFACTURING INSTRUCTIONS
W-830	(2.57)	88.4		
L-209	(0.34)	11.4		Y-962
L-177	(0.22)	6.4		
E-118 }	(0.20)	3.0	} Premix	
S-213 }	0.22	(1.5)	}	
369-G-74	(1.06)	9.0		
V-2283	76.2	(579.4)	(12 gals. in grind)	
S-340	17.6	(114.5)	(7.gals. in grind)	
E-396	(0.42)	5.8		
E-304	0.45	(3.60)		
E-392	0.50	(3.60)		
E-262	0.14	(1.08)		
146-C-200	0.10	(0.72)		
369-Y-129	Trace			
				Use Clean Mill
				Mill Charge-23.6%
Yield	100.02	828.40		

Standard Formula
Not to be taken
from File

FILMS

Formula Number Y-1212-M

Laboratory Number

R.M. Cost Date 3/1/67

Mill Pebble Grind 7-8

NPVLA %Lead -1

Label Warning 11-62 METHOD

Wt./Gal. 8.2#

Flash Ft. °100°

N.V.Wt. 48.8%

N.V.Vol. 36.0%

Visc. 90-100" BC

Visc. Red.

Reduc S-340 Ratio

P.V.C. 10.7 pH

Color Green Match Y-1212

Gloss over 85 Method

Strainer

Container

Application Brush, Roll, Spray

Cure Air Dry: 3-4 hrs.
Recoat: Overnight

Remarks

Formulator J. E. Southwick

Approved by

N12080

GLD059327

Glidden Form 1100-1 (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

Color Gloss

For Use On

Resistance

Manufactured at Plants #2-4-5-8-12-14 2-16-67

Stamped

#11-13-16-17 2-16-67

Manufacturing Instructions or Remarks

#30 12-6-66

Date [illegible] Formula No. [illegible]

Product [illegible] -- [illegible]

Label Warning [illegible]

ANALYSIS

Pigment 13.5 %

Vehicle 81.5 %

100.0%

Pigment

Titanium Dioxide	82.2%
Phthalocyanine Green	2.1%
Ferrite Yellow	10.0%
Zinc Yellow	5.7%
	100.0%

Vehicle

Soya Alkyd Resin	40.9%
Mineral Spirits & Driers	59.1%
	100.0%

NO CHANGE IN ANALYSIS

V-1212 564

GLD059328

SCHEDEN 430-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS: Japalac - Bud Green
CONSISTENCY:
FOR USE ON: Mfg. plants #2-4-5-8-12-13-17
CUSTOMER: Less than 1% Lead

FORMULA NO. Y-1212-H
LABORATORY NO.
COST CLASS
DATE 4/29/66
STRAINER
GRIND 7
MILL Pebble
WT. OR BE 8.2#
IS AGITATOR REQUIRED
VISC. F. B. 90-100" TEMP. 77°F
VISC. RED. TEMP.
VISCOSIMETER #4 Ford Cup
COLOR Green SHEEN Gloss
NON VOL 40.8% FLASH PT. 100°F
MATCH FOR Y-1212

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
V-290				(2.57)	88.4	
FW-89				(0.34)	11.4	
FH-77				(0.22)	5.4	
V-218 Premix				(0.20)	3.0	
S-91				0.22	(1.5)	
369-C-74				(1.06)	9.0	
REDUCER S-340						
V-891-A (12 gals. in grind)				76.2	(579.4)	
S-340 (7 gals. in grind)				17.6	(114.5)	
AMT. FOR BRUSHING F.B.						
SPRAYING S-342 TUMBLING						
DIPPING DRIP TIME						
M-333				(0.42)	5.8	
BAKE TEMP.						
VM-524	Standard formula to bake			0.45	(3.60)	
VM-816				0.50	(3.60)	
CH-359				0.14	(1.08)	
146-C-200				0.10	(0.72)	
AIR DRIES IN 3-4 hours						
A. D. TO RECOAT IN Overnight						
REMARKS:						
NV by Vol. - 36.0%						
PVC - 10.7%						
369-Y-129				Trace		
Mill Charge - 23.6%						
USE CLEAN MILL						
FORMULATOR J. E. Southwick						
YIELD				100.02	828.40	

GLD059329

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-H
		PIGMENT 13.5 %		Japalac - Bud Green
		VEHICLE 86.5 %		
		100.0%		
				4/19/66
		PIGMENT		
		Titanium Dioxide	82.2%	Warning No. 11-62 NPVLA
		Phthalocyanine Green	2.1%	
		Ferrite Yellow	10.0%	
		Zinc Yellow	5.7%	
			100.0%	
				No change in analysis
				Mfg plant:
		VEHICLE		
		Soya Alkyd Resin	40.9%	#2 4-5-8-9-14-17 [illegible]
		Mineral Spirits & Driers	59.1%	Stamped.
			100.0%	[illegible]
				Pour 10-31-66 G
				[illegible] 1-4-67 G
		Y-1212	564	

GLD059330

GLIDDEN 4804 PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOODS: Japalac - Bud Green

CONSISTENCY

FOR USE ON: Mfg. plants #2-4-5-8-12-14-17

CUSTOMER: Less than 1% Lead

FORMULA NO. Y-1212-L BASE

LABORATORY NO.

COST CLASS DATE 4/30/65

STRAINER GRIND 7-8

MILL Pebble WT. OR BE 8.2#

IS AGITATOR REQUIRED

VISC. F. B. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR Green SHEEN Gloss

NON VOL 48.8% FLASH PT. 100°F

MATCH FOR Y-1212

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hours

A. D. TO RECOAT IN Overnight

REMARKS:

NV by Vol. - 36.0%

PVC - 10.7%

Mill Charge - 23.6%

Changed to use W-290.

FORMULATOR J. E. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-290				(2.57)	88.4	
YW-89				(0.34)	11.4	
YW-77				(0.22)	6.4	
W-218 Premix				(0.20)	3.0	
S-91				0.22	(1.5)	
369-C-74				(1.06)	9.0	
V-891 (12 gals. in grind)				76.2	(579.4)	
S-43 (7 gals. in grind)				17.6	(114.5)	
M-333				(0.42)	5.8	
VM-524	Standard Formula,			0.45	(3.60)	
VM-816	Not to be taken			0.50	(3.60)	
CH-359	from File.			0.14	(1.08)	
146-C-200				0.10	(0.72)	
369-Y-129				Trace		
	USE CLEAN MILL					
YIELD				100.02	828.40	

GLD059331

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-L
		PIGMENT 13.5 %		Japalac - Bud Green
		VEHICLE 86.5 %		
		100.0%		4/30/65
		PIGMENT		
		Titanium Dioxide	82.2%	Warning No. 11-62 NPVLA
		Phthalocyanine Green	2.1%	
		Ferrite Yellow	10.0%	Y Paint Lot 5-17-65 E
		Zinc Yellow	5.7%	# 2-4-5-8-12-14-17
			100.0%	
				Stamped - Packer
				1-11-15-16 5-18-65 G
				# 3 (Thinner) 2-25-66 C
		VEHICLE		
		Soya Alkyd Resin	40.9%	
		Mineral Spirits & Driers	59.1%	
			100.0%	
		Y-1212	564	

GLD059332

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

FORMULA RECORD

FORMULA NO. Y-1212-K Base

GOODS Japalac - Bud Green

LABORATORY NO.

CONSISTENCY

COST CLASS

DATE 9/16/53

FOR USE ON X Mfg. at plants (1)-2-4-5-6-12-14-16-8 per

STRAINER

GRIND 7-8

CUSTOMER Less than 1% Lead

MILL Pebble

WT. OR BE 8.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(2.76)	93.0	
YW-89				(.34)	11.4	
YW-77				(.22)	6.4	
W-218 Premix				(.20)	3.0	
S-91				.22	(1.5)	
369-C-74				(1.06)	9.0	
V-891 (12	gal. in grind)			76.2	(579.4)	
S-43 (7	gal. in grind)			17.4	(114.6)	
M-333				(.41)	5.8	
	Standard Formula,					
VM-524				.45	(3.6)	
VM-816	Not to be taken			.50	(3.6)	
CR-359				.14	(1.1)	
146-C-200	from File.			.1	(.6)	
369-Y-129				Trace		
	USE CLEAN MILL					
YIELD				100.00	833.0	

IS AGITATOR REQUIRED

VISC. F. B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. 50.5% FLASH PT. 100°F

MATCH FOR Y-1212

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

R. D. TO RECOAT IN

REMARKS:

NV by Vol. 35.28%

PVC 9.40%

Mill Base 23.80%

Changed to use 369-C-74 and lower shading costs.

FORMULATOR E. Southwick

GLD059333

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-X
		PIGMENT 14.7 %		Japalac - Bud Green
		VEHICLE 85.3 %		
		100.0%		9/16/63
		PIGMENT		
		Titanium Dioxide	84.3%	
		Phthalocyanine Green	1.7	Warning No. II-62 NPWLA
		Ferrite Yellow	9.3	
		Zinc Yellow	4.7	No change in analysis
			100.0%	
		Colombia 1-28-64 ②		
		Peru 2-14-64 ②		Only Enamel Lot 9-20-630
				#1-2-4-5-8-12-14-16
		VEHICLE		Stamped:
		Soya Alkyd Resin	42.0%	#13-17 9-20-630
		Mineral Spirits & Driers	58.0	
			100.0%	Panama 9-25-63
		W. Indies 1-17-64 ②		Italy 1-6-64 ③
		Mexico 2-21-640		
		Manila 3-31-64		Del Japan 1-6-640
		Ecuador 4-27-64 ③		Costa Rica 1-8-64
		Y-1212	959	Guatemala 1-16-64

GLD059334

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

FORMULA RECORD

FORMULA NO. Y-1212-J

GOODS Japalac - Bud Green

LABORATORY NO. Tallate Driers

CONSISTENCY

COST CLASS.

DATE 7/24/62

FOR USE ON Mfg. at plants #2-8-16-1X-1-4-5-X-[illegible]X

STRAINER

GRIND 7-8

CUSTOMER Less than 1% Lead (1-10-63)

MILL Pebble

WT. OR BE 8.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				(2.94)	102.8	
G-74				(.14)	2.1	
YW-89				(.33)	11.4	
YW-77				(.19)	5.7	
W-218) Premix				(.20)	3.0	
S-91)				.20	(1.5)	
V-891 (16 gals. in grind)				75.0	(570.0)	
S-43 (7 gals. in grind)				19.4	(126.1)	
Grind to 7-8 and add:						
M-333				(.43)	5.8	
Grind 15 min.						
VM-524				.45	(3.1)	
VM-816				.50	(3.6)	
CH-359				.14	(1.08)	
146-C-200				.10	(.6)	
YIELD				100.04	838.38	

Standard Formula
Not to be taken
from File.

DISCONTINUED
SEE Y-1212

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT. 100°

MATCH FOR Y-1212

REDUCER S-43

ANT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4

A. D. TO RECOAT IN

REMARKS:

Mill Base	28.0%
NV by Vol.	32.0%
PVC	11.9%
NV by Wt.	49.0%

FORMULATOR J. E. Southwick

Also Y-4123

GLD059335

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-J
		PIGMENT 14.7 %		Japan - Bud Green
		VEHICLE 85.3 %		
		100.0%		
				7/24/62
		PIGMENT		~~[illegible]~~ Warning 11-62 NPVLA
		Titanium Dioxide	84.3%	11-14-62
		Phthalocyanine Green	1.7	
		Barrite Yellow	9.3	No change in analysis
		Iron Yellow	4.7	
			100.0%	
		VEHICLE		
		Soya Alkyd Resin	42%	
		Mineral Spirits & Driers	56	
			100%	Mexico 11-14-62 (3)
		Chile Colombia, Costa Rica,		
		Ecuador, Guatemala		#1 (Dress-U.C.B.-Cost) 8-3-62
		West Indies, Peru, Sil. Japan		#30 (Southwick-Herzog) "
		11-16-62		
		Italy 9-3-63		Plant #2-8-16-17 8-3-62
				#1 (on Y Enamel List) 8-8-62
				Per E.S.
		Y-1212	959	#4-5-11-12-14-15 8-29-62 (1)

GLD059336

FORMULA RECORD

FORMULA NO. Y-1212-J

GOODS Japalac - Bud Green

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 7/24/52

FOR USE ON Mfg. at plants #1-2-4-5-8-½-12-14-15

STRAINER GRIND 7-8

CUSTOMER Less than 1% Lead

MILL Pebble WT. OR BE 8.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208				2.94	102.8	
G-74				.14	2.1	
W-89				.33	11.4	
W-77				.19	5.7	
W-218) Premix				.20	3.0	
S-91)				.20	(1.5)	
W-891 (16 gals. in grind)				75.0	(570.0)	
S-43 (7 gals. in grind)				19.0	(123.0)	
Grind to 7-8 and add:						
W-333				(.43)	5.8	
Grind 15 min.						
D-83				.90	(6.2)	
RM-816				.50	(3.6)	
OH-359				.14	(1.08)	
146-C-200				.10	(.6)	
YIELD				100.04	838.38	

Standard Formula, Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT. 100°

MATCH FOR Y-1212

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUBELING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4

A. D. TO RECOAT IN

REMARKS: Better gloss & stop seeding.

Mill Base 28.0%

NV by Vol. 32.0%

PVC 11.9%

NV by Wt. 49.0%

FORMULATOR J. E. Southwick

GLD059337

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	
		VEHICLE %	
			7/24/62
		PIGMENT	
			On Y Enamel List 7-~~30~~-62
			#1-24-5-8-12-14-15 27
			Stamped
			11-16-17 7-30-62
		VEHICLE	

GLD059338

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

FORMULA RECORD

FORMULA NO. Y-1212-B [illegible]

GOODS Japalac - Bud Green

LABORATORY NO. (Atlanta Only)

CONSISTENCY

COST CLASS.

DATE 6/16/61

FOR USE ON This Production Must Not Contain Lead

STRAINER

GRIND

CUSTOMER

MILL [illegible]

WT. OR BE [illegible]

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
[illegible]				(2.04)	[illegible]	
[illegible]				(.14)	2.1	
[illegible]				(.33)	11.4	
[illegible]-77				(.19)	5.7	
[illegible]-185				(.45)	[illegible].0	
[illegible]-33				(.40)	5.5	
[illegible] (16 gals. in grind)				72.0	(600.0)	
[illegible] (7 gals. in grind)				14.3	(92.8)	
VM-524				.35	2.8	
VM-526				.36	(3.4)	
VM-858				.36	[illegible]	
[illegible]-359				.13	(1.0)	
[illegible]-C-200				.1[illegible]	(.6)	
YIELD				[illegible]	[illegible]	

DISCONTINUED

SEE Y-1212-J

IS AGITATOR REQUIRED

VISC.F.B. 90-[illegible] TEMP.

VISC. RED. TEMP.

VISCOSIMETER [illegible] Cup

COLOR SHEEN Clear

NON VOL. FLASH PT.

MATCH FOR Y-1212 Panel

REDUCER S-43

ANT. FOR BRUSHING [illegible]

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN [illegible]

A. D. TO RECOAT IN [illegible]

REMARKS:

Standard Formula, Not to be taken from File.

FORMULATOR [illegible]

GLD059339

COST	DATE	ANALYSIS	CUSTOMERS
		PIGMENT %	
		VEHICLE %	#1 (Southwick - Herzog - TMS) 6/21/61
		PIGMENT	#8 (Houck-Atwood) 6/21/61
			# 2 2-26-620
		VEHICLE	

GLD059340

FORMULA RECORD

FORMULA NO. V [illegible]

GOODS Jalalac - Red Green

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 5/8/61**

FOR USE ON This Production Must Not Contain Lead

STRAINER GRIND

CUSTOMER

MILL Penola WT. OR BE

IS AGITATOR REQUIRED

VISC. F.B. 90-[illegible] TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Flat

NON VOL. FLASH PT.

MATCH FOR V-1213 Panel

REDUCER R-43

MAT. FOR BRUSHING P.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Also V-4123 /

**Reissued to eliminate VM-431

FORMULATOR J.B. Southwick

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
A-208				12.05	102.6	
C-75	DISCONTINUED			.14	2.1	
EM-89				.33	11.4	
VM-77	SEE V-1272-J			.19	5.7	
GH-185				.45	8.0	
B-333				.40	5.5	
V-891	(16 gals. in grind)			79.0	(600.0)	
S-43	(7 gals. in grind)			74.3	(92.8)	
D-83				7	(4.0)	
VM-432				36	(3.5)	
VM-523				36	(2.9)	
CS-359				13	(1.0)	
146-C-200				1	(.6)	
YIELD				100.1	842.8	

Standard Formula. Not to be taken from File.

GLD059341

COST	DATE	ANALYSIS.		CUSTOMERS Y-1212-N
		PIGMENT 14.7 %		Japalac - Bud Green
		VEHICLE 85.3 %		
		100.0%		5/12/60
		PIGMENT		No. 1 Label Warning
		Titanium Dioxide	84.36	
		Phthalocyanine Green	1.7	
		Ferrite Yellow	9.3	No change in analysis
		Zinc Yellow	4.7	
			100.0%	
				Y Enamel List 5-11-61
				Plant #1-2-4-5-12-14-[illegible]
				11+17
		VEHICLE		#15 (Waschau) 5-11-61
		Soya Alkyd Resin	42%	
		Mineral Spirits & Driers	58	#7 (Keating) 5-11-61
			100%	(Chile - Colombia Ecuador - Guatemala
				Mexico - Peru - West Indies - 6-22-61
				Texas (Texas) 8-2-61 (31)
		Y-1212 959		Costa Rica 6-8-62

GLD059342

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

FORMULA RECORD

FORMULA NO. Y-1212-H

GOODS Japalac - Bud Green

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 5/12/60

FOR USE ON This Production Must Not Contain Lead

STRAINER GRIND 7-8

CUSTOMER

MILL Pebble WT. OR BL 8.3#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208	[illegible] CONTINUED			(2.94)	102.6	
C-74				(.14)	2.1	
YM-89				(.33)	11.4	
YW-77 SEE				(.19)	5.7	
CH-185				(.45)	4.0	
K-333				(.40)	5.5	
VM-431				.7	(5.7)	
V-891 (16 gals. in grind)				79.0	(600.0)	
S-43 (7 gals. in grind)				14.3	(92.8)	
D-83				.7	(4.9)	
VM-432				.36	(3.4)	
VM-523				.36	(2.9)	
CH-359				.13	(1.0)	
146-C-200				.1	(.6)	
	Standard Formula, not to be taken from File.					
YIELD				109.1	842.8	

IS AGITATOR REQUIRED

VISC. F.B. 90-100 TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1212 Panel

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to remove M-354 bubbling.

Also Y 4123

FORMULATOR J.E. Southwick

GLD059343

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-H
		PIGMENT 14.7 %		Japalac - Bud Green
		VEHICLE 85.3 %		
		100.0%		5/12/60
		PIGMENT		No. 1 Label Warning
		Titanium Dioxide	84.3	
		[illegible]	1.4	
		[illegible] Yellow	9.2	[illegible] change in analysis
		[illegible] Yellow	4.7	
			100.0%	
				Y Enamel Lost 5-15-60
				Seating (Tulsa)
		VEHICLE		Marche (Portland)
		Soya Alkyd Resin	42%	
		Mineral Spirits & Driers	58	[illegible]
			100%	
		Y-1212 959		

GLD059344

REDDEN 400-M PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1212-0

GOODS Japalac - Bud Green

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 12/18/59**

FOR USE ON This production must not contain lead.

STRAINER GRIND 7-8

CUSTOMER

MILL Pebble WT. OR BE 8.3

IS AGITATOR REQUIRED

CODE NUMBER	Gal. XXXXXXXXX BATCH XXXXS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208		1240			102.8	
G-74		25			2.1	
YW-89		138			11.4	
YW-77		69			5.7	
M-354		17			1.4	
CH-185		52			4.3	
M-333		69			5.7	
VM-431	8.6	69		0.7	5.7	
V-891 *	928	7054		77.0	585.0 ***	
S-43 *	172	1120		14.3	92.8 ***	
D-83	8.55	59		.7	4.9	
VM-432	4.32	41		.36	3.4	
VM-523	4.32	35		.36	2.9	
CH-359	1.56	12		.13	1.0	
* 100 Gals. - ADD IN GRIND - *** 9 Gals.						
*100 Gals. - ADD IN GRIND - *** 9 Gals.						
YIELD	1205	10,000		100.0	829	

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1212 Panel

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

**DESTROY COPY DATED 11/2/59

FORMULATOR J.E. Southwick 30-12

GLD059345

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-C
		PIGMENT 14.7 %		Japalac - Bud Green
		VEHICLE 85.3 %		
		100.0%		12/18/59
		PIGMENT		No. 1 Label Warning
		Titanium Dioxide	84.3	
		Phthalocyanine Green	1.7	
		[illegible]	[illegible]	
		Zinc Yellow	4.7	No change in analysis
			100.0%	
				7 Enamel Lot 1-7-60
				Marcha (Portland) 1-7-60
		VEHICLE		Keating (Tulsa) 1-7-60
		Soya Alkyd Resin	42%	
		Mineral Spirits & Driers	58	Goulbitt 3-10-60
			100%	[illegible]
				~~[illegible]~~
				[illegible] 2-12-60
				Columbia "
				[illegible]
				[illegible]
				[illegible]
				[illegible]
				[illegible] 2-12-60
		Y-1212 959		

GLD059346

GLIDDEN 400-M PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1212-G

GOODS Japalac - Bud Green

LABORATORY NO.

CONSISTENCY

COST CLASS.

DATE **11/2/59

FOR USE ON THIS PRODUCTION MUST NOT CONTAIN LEAD

STRAINER

GRIND 7-8

CUSTOMER (Less than 1% Lead)

MILL Pebble

WT. OR DE 8.3

CODE NUMBER	Gal. ~~GALLON~~ BATCH ~~PINTS~~	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
Y-208		1240			102.8	
O-74		25			2.1	
TW-89		138			11.4	
TW-77		69			5.7	
M-354		17			1.4	
CH-185		52			4.3	
M-333		69			5.7	
VM-431	8.6	69		0.7	5.7	
V-891	*928	7054		77.0	585.0 ***	
S-43	*172	1120		14.3	92.3 ***	
D-83	8.55	59		4.9	4.9	
VM-432	4.32	41		3.4	3.4	
VM-523	4.32	35		2.9	2.9	
CH-359	1.56	12		1.0	1.0	
YIELD	1205	10.000		100.0	829	

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1212 Panel

REDUCER S-43

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP-TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Change to Y-891

*100 Gals. - Add in grind. - *** 9 Gals.

*100 Gals. - Add in grind. - *** 9 Gals.

**DESTROY COPY DATED 9/28/59.

Ex Y-4123

FORMULATOR J.E. Southwick

30-12-12

GLD059347

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-G
		PIGMENT 14.7	%	Japalac - Bud Green
		VEHICLE 85.3	%	11/2/59
		100.0%		
		PIGMENT		No. 1 Label Warning
		Titanium Dioxide	84.3	
		Phthalocyanine Green	1.7	
		Ferrite Yellow	9.3	
		Zinc Yellow	4.7	No change in analysis
			100.0%	
				Y Enamel Lost 11-5-59
		VEHICLE		
		Soya Alkyd Resin	42%	
		Mineral Spirits & Driers	58	
			100%	
		Y-1212 959		

GLD059348

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

FORMULA RECORD

FORMULA NO. V-1212-G

GOODS Jupalac - Bud Green

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 9/28/59

FOR USE ON THIS PRODUCTION MUST NOT CONTAIN LEAD

STRAINER GRIND 7-8

CUSTOMER (Less than 1% Lead)

MILL Pebble WT. OR BE 8.3

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-206		1240				
[illegible]-74		25				
[illegible]		138				
[illegible]		69				
[illegible]-354		17				
[illegible]-185		52				
[illegible]-333		69				
[illegible]-431	8.6	69				
V-891	928	7054	(100 Gals.-add in grind)			
S-43	172	1120	(100 Gals.-add in grind)			
[illegible]-83	8.55	59				
[illegible]-432	4.32	41				
[illegible]-583	4.32	35				
[illegible]-359	1.56	12				
YIELD	1205	10.000				

IS AGITATOR REQUIRED

VISC. F.B. 90-100' TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR V-1212 Panel

REDUCER S-43

AMT. FOR BRUSHING F.E.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Change to V-891

Standard Formula. Not to be taken from File.

FORMULATOR J.E. Southwick

30-12-12

GLD059349

COST	DATE	ANALYSIS	CUSTOMERS Y-1212-G
		PIGMENT [illegible] %	Japalac - Bud Green
		VEHICLE [illegible] %	9/23/59
		[illegible]	
		PIGMENT	[illegible] Label Warning
		[illegible]	
		[illegible]	Y Enamel Lot [illegible] 59
		[illegible]	
		[illegible]	
		[illegible]	
		VEHICLE	
		[illegible]	
		[illegible]	
		[illegible]	
		Y-1212 959	

GLD059350

FORM 430-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1212-F

GOODS Japalac - Bud Green

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 8/26/59**

FOR USE ON (Less than 1% Lead)

STRAINER GRIND 7-8

CUSTOMER

MILL Pebble WT. OR BE 8.5#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208		1	2		105	
[illegible]			3/8		2.2	
YW-37			2		11.7	
W-77			1		5.9	
W-354			1/4		2.3	
CH-185			3/4		4.4	
N-333			1		5.9	
V-869	6-7/8			80.5	(633)	
S-43	1-1/8			13.2	(86.5)	
YW-432		3/4	Loz.	.55	(5.3)	
T-83		1	Loz.	.73	(5.1)	
YW-523		1/2	Loz.	.37	(2.9)	
CH-359		3/16	Loz.	.12	(1.0)	
	Standard Formula. Not to be taken from File.					
YIELD	1.065			100		

IS AGITATOR REQUIRED

VISC. F.B. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #7 Zahn Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1212 Panel

REDUCER S-43

MAT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to remove Lead Pigments.

**Reissued to use Glidden W-208.

FORMULATOR J.E. Southwick

29-12-12

GLD059351

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-P
		PIGMENT 14.7 %		Japalac - Bud Green
		VEHICLE 85.3 %		
		100.0%		
				8/26/59
				No change in analysis.
		PIGMENT		
		Titanium Dioxide	83.8	No. 1 Label Warning
		[illegible]	[illegible]	
		[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	
			100.0%	
		VEHICLE		
		[illegible]	[illegible]	
		[illegible]	[illegible]	
			100.0%	
		Y-1212 954		

GLD059352

GLIDDEN 440-H PRINTED IN U.S.A. FRONT

FORMULA RECORD

GOOD Japalac - Bud Green

CONSISTENCY

FOR USE ON (less than 1% Lead)

CUSTOMER

FORMULA NO. Y-1212-F

LABORATORY NO.

COST CLASS. V DATE 4/28/59

STRAINER GRIND 7-8

MILL Pebble WT. OR BE 8.5#

IS AGITATOR REQUIRED

VISC. F.B. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1212 Panel

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to remove Lead Pigments.

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-170		1	2		105	
G-74			3/8		2.2	
YW-37			2		11.7	
YW-77			1		5.9	
W-354			1/4		2.3	
CH-185			3/4		4.4	
W-333			1		5.9	
W-869	6-7/8			80.5	(633)	
S-43	1-1/8			13.2	(86.5)	
YM-432		3/4	Loz.	.55	(5.3)	
D-83		1	Loz.	.73	(5.1)	
MM-523		1/2	Loz.	.37	(2.9)	
CH-359		3/16	Loz.	.12	(1.0)	
YIELD	1.065			100		

FORMULATOR J.E. Southwick

29-12-12

GLD059353

COST	DATE	ANALYSIS		CUSTOMERS Y-1212-F
		PIGMENT 14.7 %		Japalec - Bud Green
		VEHICLE 85.3 %		
		100.0%		4/28/59
		PIGMENT		
		Titanium Dioxide	83.0	No. 1 Label Warning
		Phthalocyanine Green	1.8	
		Ferrite Yellow	9.2	"Y" Enamel Lot 5-1-59
		Zinc Yellow	5.2	
			100.0%	A. Page (Bee Paint) 5-5-59
				[illegible]
				[illegible]
				[illegible]
		VEHICLE		[illegible]
		Soya Alkyd Resin	52.0%	[illegible]
		Mineral Spirits & Driers	48.0	[illegible]
			100.0%	[illegible]
		Y-1212 954		

GLD059354

GLIDDEN/SCOTT PRINTED IN U.S.A. FRONT

FORMULA RECORD

FORMULA NO. Y-1212-E

GOODS: Japalac Enamel - Bud Green

LABORATORY NO.

CONSISTENCY

COST CLASS.

DATE **11/5/57

FOR USE ON

STRAINER

GRIND 7-8

CUSTOMER

MILL Pebble

WT. OR BE 8.8#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
W-208		1	2			
[illegible]-74			7/16			
[illegible]			2-1/2			
[illegible]-140			5			
[illegible]-185			1			
[illegible]-533			1/2			
W-872	1-1/2					
[illegible]-43	3/4					
Grind above to 7-8 and add:						
W-872	5-3/8					
[illegible]-43	3/8					
[illegible]-432			1/2	Loz.		
[illegible]-530			1/2	"		
OH-243			1/8	"		
53-D-17	To shade					
YIELD	1.07 Gal.					

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC.F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1212 Panel

REDUCER S-43 as needed

AMT. FOR BRUSHING

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN O.H.

REMARKS:

Changed to straight grind. Do not heat over 140°F. [illegible]

**Formula 3/7/55 reissued to use Glidden W-208.

FORMULATOR J.E.S.

28-8-7

GLD059355

COST	DATE	ANALYSIS	CUSTOMERS Y-1212-E
		PIGMENT 17.8 %	Japalac- Bud Green
		VEHICLE 82.2 %	
		100 0 %	
			11/5/57
		PIGMENT	
		Titanium Dioxide	67.4% Y Trade Sales Ent. List
		Copper Phthalocyanine Green	1.6 11-8-57
		C.P. Chrome Yellow	9.4
		Calcium Carbonate	21.6 Cuba 5-5-58
			100.0 % Chile 6-23-58
			Gen. Paint VIA-S Fran 6-23-58
			Colombia 6-25-58
			[illegible] 7-10-58
		VEHICLE	West Indies 11-11-58
		Soya Alkyd Resin	52.5% Guatemala 11-17-58
		Mineral Spirits & Driers	47.5
			100.0
		Y-1212 553	

GLD059356

GOODS Japlac-Enamel Bud Green FORMULA RECORD

CONSISTENCY Liquid

FOR USE ON

CUSTOMER

FORMULA NO. Y-1212-B

LABORATORY NO.

COST CLASS. DATE 2/5/52

STRAINER GRIND Mix

MILL WT. OR GAL. 10-1/4

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
40-W-127-H	8					
93-Y-2			4-1/2			
93-Y-1			2-1/4			
93-G-74			1-1/2			
RL-8721 (146-C-705)			1/8 Loz.			

Standard Formula. Not to be taken from File.

Changed to use W-180 and improve exterior durability.

YIELD

IS AGITATOR REQUIRED

VISC. F.B. 95-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1212 Color. Std.

REDUCER S-43 if needed

AMT. FOR BRUSHING FB

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN

REMARKS: Use 2 Ozs/gal.
67-T-50 to check sagging if needed.

FORMULATOR Southwick HGH
25-6-4

GLD059357

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT 32.8 %		All Plants 2-8-52
		VEHICLE 67.2 %		Atlanta (2) 1-22-53
		100.0		Montreal % Small (Tor) 5-26-54
				Herzog 3 sets (S.A.) 7-14-54
		PIGMENT		
		Titanium Calcium	71.0 %	
		Titanium Dioxide	16.2 %	
		Calcium Carbonate	6.4 %	
		Carbonate of White Lead	6.4 %	
			100.0 %	
		Tinting material less than 5%		
		VEHICLE		
		Soya Alkyd Resin	52.6 %	
		Mineral Spirits	44.6 %	
		Liquid Drier	2.8 %	
			100.0 %	

GLD059358

FORMULA RECORD

GOODS Japalac-Enamel Bud Green

CONSISTENCY Liquid

FOR USE ON

CUSTOMER

FORMULA NO. Y-1212-C

LABORATORY NO.

COST CLASS.

DATE 11/12/51

STRAINER

GRIND 7-8

MILL

WT. OR FE 11.0#

CODE NUMBER	ONE GALLON BATCH PINTS	LBS.	OZS.	LARGE BATCH GALS.	LBS.	OZS.
40-W-127	8					
93-Y-2			4-1/2			
93-Y-1			2-1/4			
93-G-74			1-1/2			
[illegible]-8721			1/8 Loz.			

Analysis Change.

Standard Formula Active
Discontinued
See [illegible]

Standard Formula Not to be taken from File.

YIELD

IS AGITATOR REQUIRED

VISC. F.B. 110-120" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR Green SHEEN Gloss

NON VOL. FLASH PT. 100°

MATCH FOR Std. Y-1212

REDUCER S-43

AMT. FOR BRUSHING Only as needed

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 6 hrs.

A. D. TO RECOAT IN Overnite

REMARKS:

FORMULATOR H G H

25-6-4

GLD059359

COST	DATE	ANALYSIS		CUSTOMERS
		PIGMENT 38.8		All Plants 12-4-51
		VEHICLE 61.2		
		100.0 %		
		PIGMENT		
		Lithopone	63.4%	
		Titanium Oxide	29.3	
		Basic Carbonate White Lead	2.4	
		Calcium Carbonate	4.9	
			100.0 %	
		Tinting materials less than 5%.		
		VEHICLE		
		* Varnish	94.2%	
		Mineral Spirits	2.8	
		Liquid Drier	3.0	
			100.0 %	
		* Non-Volatile (Alkyd Resin, P.E. Ester Gum, Tung, Linseed Oil)	55.5%	
		Volatile (Mineral Spirits)	44.5	
			100.0 %	
		1511		

GLD059360

480-E SUM 4-48 PRINTED IN U.S.A. AP

FORMULA RECORD

Goods Japalac Enamel Bud Green

Consistency Liquid

For use on

Customer

Formula No. Y-1212-B

Laboratory No.

Cost Class. Date 3/23/49

Strainer Grind 7-C

Mill

Is agitator required

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Large Batch Gals.	Lbs.
40-W-127-E	8				
93-Y-2			4-1/2		
93-Y-1			2-1/4		
93-G-74			1-1/2		
			1/2 Gm.		
R[illegible]	Changed to improve hiding & Viscosity				

Wt. or Be 11.0# Temp.

Viscosity 110-120" Temp.

Viscosimeter #4 Cup

Color Green Sheen Gloss

Non Vol. Flash Pt. 100°

Match for Std. - Y-1212

Reducer S-43

Amt. for brushing only as needed

Spraying Tumbling

Dipping Drip time

Bake Temp.

Air dries in 6 hrs

A. D. to recoat in overnite

Remarks:

Standard Formula. [illegible] taken from File.

Formulator H G H

Yield

GLD059361

Cost	Date	Analysis		Customers
		Pigment 38.8		
		Vehicle 61.2		
		100.0	%	
		Pigment		
		Lithopone		63.4 %
		Titanium Oxide		29.3
		Basic Carbonate White Lead		2.4
		Calcium Carbonate		4.9
				100.0 %
		With necessary tinting color added		
				all plants 4-8-49
		Vehicle		
		# Varnish	92 %	
		Mineral Spirits	5	
		Liquid Drier	3	
			100 %	
		# Non Voletile	51.5 %	

GLD059362

450-D SALE 1-48 PRINTED IN U.S.A. (B)

FORMULA RECORD

Goods Japalac Enamel Bud Green
Consistency Liquid
For Use on

Date 6-12-47

Formula No. Y1212A
Laboratory No.
Cost Classification

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.
40W1271	8								
93Y2			3 5/8						
87Y1			1 15/16						
93G74			1 1/4						

Changed to new quality

Manufacturing Specifications

Grind Mix
Kind of Mill
Strainer
Weight per Gallon 11 1/4#
Light Baume Temp.
Heavy Baume Temp.
Viscosity 80-90 Temp.
Viscosimeter #4 Cup
Flash Point
Is Agitator Required
Remarks
Match Std Panel Y1212
Johnston

DISCONTINUED SEE Y1212B 3/29/49

Standard Formula Not to be taken from File.

Yield

GLD059363

Characteristics and Method of Using	Cost Data	Customers
Type of Goods		
Color		
Luster		
Match for		
Kind of Reducer		All plants 6-19-47
Amount of Reduction for	Pigment 37.6 %	
Brushing	Vehicle 62.4	
Spraying Pressure	100.0 %	
Dipping Drip Time	Analysis	
Flocoing Drip Time	Pigment	
Tumbling	Titanium Oxide 27.0 %	
Air dry to recoat	Litopone 70.3	
To Sand or Rub	Basic Lead Carbonate 2.7	
Bake Time Temp.	With necessary Tinting Colors added 100.0 %	
Rub with		
Polish with		
Schedule	Vehicle	
	x Varnish 91.7 x Non Volatile 51.35%	
	Mineral Spts. 5.3	
	Liquid Drier 3.0	
	100.0 %	

GLD059364

480-D 50M 2-44 PRINTED IN U.S.A. 181

FORMULA RECORD

Goods Japalac Enamel Bud Green
Consistency Liquid
For Use on

Date 10-5-45

Formula No. Y 1212
Laboratory No.
Cost Classification

Code Number	One Gallon Batch Pints	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.	Gallon Batch Gals.	Lbs.	Ozs.	Manufacturing Specifications
40 W127C	8									Grind mix
										Kind of Mill
93-Y-2			3 5/8							Strainer
87-Y-1			1 15/16							Weight per Gallon 10.5#
93-C-74			1 1/4							Light Baume Temp.
										Heavy Baume Temp.
										Viscosity 80-90 Temp.
										Viscosimeter #4 Cup
										Flash Point
										Is Agitator Required
										Remarks Hayward
										match Std Sample
										Y 1212
										1.48# Oil
Yield										J.P.W.

DISCONTINUED
SEE Y 1212 A
6/12/47

Standard Formula.
Not to be taken
from File

GLD059365

Characteristics and Method of Using	Cost Data				Customers
Type of Goods					
Color					
Luster					
Match for					
Kind of Reducer					
Amount of Reduction for					
Brushing					all plants 10-16-45
Spraying Pressure					
Dipping Drip Time	Analysis				
Flooding Drip Time					
Tumbling					
Air dry to recoat					
To Sand or Rub					
Bake Time Temp.					
Rub with					
Polish with					
Schedule					

GLD059366