

INTER-OFFICE MEMO

TENNECO CHEMICALS, INC.

TO M. Rosen

AT Piscataway

DATE June 20, 1977

FROM R.A. Lojewski

AT Flemington

COPY TO W.D. Bord

P.M. Reed

C.F. Rothenbeck

File

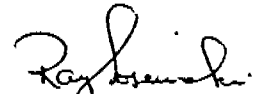
SUBJECT TOSCA

Reference: Memo to M. Rosen
from R.A. Lojewski, dated 5/19/77

Attached are the product work-ups by the Quality Control and Process Engineering Departments for the remaining homopolymer, copolymer and dispersion resins produced at Burlington.

Dispersion resins with product numbers 1760, 1770, 1780 and 1771 are produced in Germany and information is not available.

If there are any questions regarding the attached list, do not hesitate to call myself or J.W. Poarch.


R.A. Lojewski

) Attachments

RAL/jst

Item	Prod Code	L U C I R O U S		ESTIMATED AMT. OF W. IN FINAL PROD			
		Raw MATERIALS CHGD.	Raw MATERIALS IN FINAL PROD	<0.5%	0.5-1.0%	1.0-2.0%	>2.0%
175	001501	VCM	✓	✓			
		TCE	✓	✓	✓		
		WATER	✓	✓	✓		
		LAUROYL PEROXIDE	-	-			
		LUPERSOL 223M	-	-			
		METHOCEL 60HG 50CPS	✓	✓			
		NINOL	✓	✓			
		GE AF 60	✓	✓			
10R	001601	VCM	✓	✓			
		EPOXOL 9-5	✓				
		TCE	✓	✓	✓		
		LAUROYL PEROXIDE	-				
		LUPERSOL 223M	-				
		METHOCEL 65HC 50CPS	✓				
		NINOL	✓				
		GE AF 60	✓				
		IONOL	✓				
		WATER	✓	✓	✓		
200-12R	002001	VCM	✓	✓			
		WATER	✓	✓	✓		
		LUPERSOL 223 M	✓	✓			
		METHOCEL MC-15	✓	✓			
		NINOL	✓	✓			
		GE AF 60	✓	✓			
		NaHCO ₃	✓	✓			

COLORTITE 012172

5/31/77
RAL

Prod. No.	Prod. Code	Raw Materials Chgd.	Raw Materials To Final Prod.	Estimated Amt. of Residue Retained			
				<0.5%	0.5-1.0%	1.0-2.0%	>2.0%
225-16R	004800	VCN	✓	✓			
		WATER	✓	✓			
		LAURYL PEROXIDE	-	-			
		LUPERSOL 223M	-	-			
		METHOCRL MC-15	✓	✓			
		NIDOL	✓	✓			
		GEAF 60	✓	✓			
		NaHCO ₃	✓	✓			
		IONOL	✓	✓			
225 PG	001502	VCN	✓	✓			
		WATER	✓	✓			
		LAURYL PEROXIDE	-	-			
		LUPERSOL 223M	-	-			
		METHOCRL MC-15	✓	✓			
		NIDOL	✓	✓			
		GEAF 60	✓	✓			
		NaHCO ₃	✓	✓			
250	006001	VCN	✓	✓			
		WATER	✓	✓			
		LAURYL PEROXIDE	-	-			
		LUPERSOL 223M	-	-			
		METHOCRL MC-15	✓	✓			
		NIDOL	✓	✓			
		GEAF 60	✓	✓			
		NaHCO ₃	✓	✓			
		IONOL	✓	✓			

5/31/77
R.A.L.

COLORITE 012173

PAC	PROD CODE	RAW MATERIAL CHGD	RAW MATERIAL IN FINAL PROD	ESTIMATED AMT OF RAW MATERIAL IN FINAL PROD			
				<0.5%	0.5-1.0%	1.0-2.0%	>2.0%
250-3	007501	1/CM	✓	✓			
		1/CM	✓	✓			
		LAURYL PEROXIDE	-	-			
		LUPERSOL 223 M	-	-			
		METHOCAL MC-15	✓	✓			
		NINOL	✓	✓			
		GEAF60	✓	✓			
		NaHCO ₃	✓	✓			
		TOTAL	✓	✓			

COLORITE 012174

5/31/77
RAL

BLND. PROD. 5

Prod. Name	Prod. Code	Raw Material Chgd	Raw Material In Final Prod.	ESTIMATED AMT. OF R MATERIAL RETAINED			
				<0.5%	0.5-1.0%	1.0-2.0%	>2.0%
501	330100	UCM	✓	✓			
		WATER	✓	✓	✓		
		LAUROYL PEROXIDE	-	-			
		LUPERSOL 223M	-	-			
		METHOCAL	✓	✓			
		MC 90 MG100 CPS	✓	✓			
		NaHCO ₃	✓	✓			
		NINOL	✓	✓			
		GEAF60	✓	✓			
521	332100	UCM	✓				
		UACM	✓	✓	✓		
		WATER	✓	✓	✓		
		LAUROYL PEROXIDE	+	-			
		LUPERSOL 223M	-	-			
		GEWATOL 90-20	✓	✓			
		NaHCO ₃	✓	✓			
		NUOL	✓	✓			
		Colloids 581B	✓	✓			
901	INTERNAL Consumption	UCM	✓	✓			
		WATER	✓	✓			
		AMMONIUM PERSULFATE	-	-			
		DAW-80	✓	✓			
		NINOL	✓	✓			
		Colloids 581B	✓	✓			
		Ammonia Solution	✓	✓			

COLORITE 012175

RAL

BLEND. MKOD: 15

PROD NAME	PROD CODE	RAW MATERIALS CHGD	RAW MATERIAL IN FINAL PROD.	ESTIMATED AMT OF R MATERIAL REMAINING			
				<0.5%	0.5-1.0%	1.0-2.0%	>2.0%
403	INTERNAL Consumption	UCM	✓	✓			
		VACM	✓	✓			
		TCE	✓	✓			
		WATER	✓	✓			
		AMMONIUM PERSULFATE	-	-			
		AVIROL 101	✓	✓			
		NINOL	✓	✓			
		COLLOIDS 581B	✓	✓			
		CAUSTIC SOLUTION	✓	✓			

COLORITE 012176

RAL

PROD NAME	PROD CODE	RAW MATERIALS CHED	RAW MATERIALS FINISH PROD	EST. Amt. of Raw + General Retzinc			
				20.5%	0.5-1.0%	1.0-2.0%	2.0%
150 B	C01001	VCM	✓	✓			
		VAc					
		TCB	✓		✓		
		Water	✓		✓		
		L.P.	✓	✓			
		Lup	✓	✓			
		Celstun					
		Al ₂ Ac					
		NaHCO ₃	✓	✓			
		Methacel	✓	✓			
		PVA					
		NINOL	✓	✓			
		GE-60	✓	✓			
		Colloids 381B					
		Colloids 991					
		EPDOL 9-5					
		IONOL CP					
		TAIC					

<u>PROD NAME</u>	<u>PROD CODE</u>	<u>RAW MATERIALS CHG'D</u>	<u>RAW MATERIALS FINAL PROD</u>	<u>EST. Amt. of Raw + Heavy Metals</u>			
				<u>20.5%</u>	<u>0.5-1.0%</u>	<u>1.0-2.0%</u>	<u>>2.0%</u>
200-2 B	003001	VCM	✓	✓			
		VAc					
		TCE					
		Water	✓		✓		
		L.P.	✓	✓			
		Lup	✓	✓			
		Gelatin					
		Al ₂ Ac					
		NaHCO ₃	✓	✓			
		Methocel	✓	✓			
		PVA					
		NIKOL	✓	✓			
		GE-60	✓	✓			
		Colloids 381B					
		Colloids 991					
		EPDOL 9-5					
		IONOL CP					
		TAIC					

COLORITE 012178

PROD NAME	PROD CODE	RAW MATERIALS CHG'D	RAW MATERIALS FINAL PROD	EST. Amt. of Raw, Heavy Metals			
				10.5%	0.5-1.0%	1.0-2.0%	2.0%
250-3 B	0075001	VCM	✓	✓			
		VAc					
		TCE					
		Water	✓		✓		
		L.P.	✓		✓		
		Lup	✓		✓		
		Celstin					
		N ₂ Ac					
		NaHCO ₃	✓		✓		
		Methacel	✓		✓		
		PVA					
		NIKOL					
		GE-60	✓		✓		
		Colloids 381B					
		Colloids 991					
		EPDOL 9-5					
		IONOL CP					
		TAIC					

COLORITE 012179

PROD. NAME	PROD CODE	RAW MATERIALS CHG'D	RAW MATERIALS FINAL PROD	EST. Amt. of Raw P. (Ketzene)			
				20.5%	0.5-1.0%	1.0-2.0%	2.0%
255 B	009001	VCM	✓	✓			
		VAc					
		TCF					
		Water	✓		✓		
		L.P.	✓	✓			
		Lup	✓	✓			
		Cellulose					
		M ₂ Ac					
		NaHCO ₃	✓	✓			
		Methacel					
		PVA					
		NINOL					
		GE-60	✓	✓			
		Colloids 351A					
		Colloids 991					
		EPDOL 9-5					
		IONOL CP					
		TAIC	✓	✓			

PROD NAME	PROD CODE	RAW MATERIALS CHG'D	RAW MATERIALS FINAL PROD	L.D.I. Amt. of raw material per 100g			
				10.5%	0.5-10%	1.0-2.0%	2.0%
382 B	103500	VCM	✓	✓			
		VAc	✓		✓		
		TCE	✓	✓			
		Water	✓		✓		
		L.P.	✓	✓			
		Lup					
		Gelatin	✓	✓			
		NaAc	✓	✓			
		NaHCO ₃					
		Methocel					
		PVA					
		NINOL	✓	✓			
		GE-60					
		Colloids 381A	✓	✓			
		Colloids 991					
		EPDOL 9-5					
		IONOL CP					
		TAIC	✓	✓			

COLORITE 012181

PROD NAME	PROD CODE	RAW MATERIALS CHG'D	RAW MATERIALS FINAL PROD	EST. AMT. of Raw / Chem / Retain			
				20.5%	0.5-10%	1.0-2.0%	2.0%
385	105000	VCM	✓	✓			
		VAc	✓		✓		
		TCF	✓	✓			
		Water	✓		✓		
		L.P.	✓	✓			
		Lup					
		Gelatin	✓	✓			
		Al ₂ Ac	✓	✓			
		NaHCO ₃					
		Methacel					
		PVA					
		NIKOL					
		GE-60					
		Colloids 381B	✓	✓			
		Colloids 991					
		EPOXOL 9-5					
		IONOL CP					
		TAIC					

COLORITE 012182

PROD NAME	PROD CODE	RAW MATERIALS CHR'D	RAW MATERIALS FINAL PROD	LOT. Amt. of Raw P. General Netting			
				20.5%	0.5-1.0%	1.0-2.0%	22.0%
387 B	106000	VCM	✓	✓			
		VAe	✓		✓		
		TCe	✓	✓			
		Water	✓		✓		
		L.P.	✓	✓			
		Lup					
		Gelatin	✓	✓			
		NaAc	✓	✓			
		NaHCO ₃					
		Methacel					
		PVA					
		NIKOL	✓	✓			
		GE-60					
		Colloids 381B	✓	✓			
		Colloids 991					
		EPOXOL 9-5					
		IONOL CP					
		TALC					

COLORITE 012183

PROD NAME	PROD CODE	RAW MATERIALS CHR'D	RAW MATERIALS FINAL PROD	EST. Amt. of Raw, Hencel/Ketzer			
				20.5%	0.5-1.0%	1.0-2.0%	2.0%
501B	330100	VCM	✓	✓			
		VAe					
		TCe					
		Water	✓			✓	
		L.P.	✓	✓			
		Lup	✓	✓			
		Gelatin					
		N ₂ Ae					
		N ₂ HCO ₃	✓	✓			
		Methocel	✓	100%		✓	
		PVA					
		NINOL	✓	✓			
		GE-60	✓	✓			
		Colloids 381B					
		Colloids 991	✓	✓			
		EPOXOL 9-5					
		IDNOL CP					
		TALC					

PROD NAME	PROD CODE	RAW MATERIALS CHG'D	RAW MATERIALS FINISH PROD	LDT. Amt. of Raw Material (relating)			
				20.5%	0.5-10%	1.0-2.0%	2.0%
521 B	332100	VCM	✓	✓			
		VAc	✓		✓		
		TCE					
		Water	✓			✓	
		L.P.	✓	✓			
		Lup	✓	✓			
		Gelatin					
		N ₂ Ac					
		N ₂ HCO ₃	✓	✓			
		Methacel					
		PVA	✓			✓	
		NINOL	✓	✓			
		GE-60	✓	✓			
		Colloids 381B	✓	✓			
		Colloids 991	✓	✓			
		EPDOL 9-5					
		IONOL CP					

COLORITE 012185

PROD NAME	PROD CODE	RAW MATERIALS CHRD	RAW MATERIALS FINAL PROD	EST. AMT. of Raw Mtl. used (per unit)			
				20.5%	0.5-1.0%	1.0-2.0%	72.0%
5501 B	333600	VCM	✓	✓			
		VAc					
		TCF					
		Water	✓		✓		
		L.P.	✓	✓			
		Lup	✓	✓			
		Gelatin					
		Al ₂ O ₃					
		NaHCO ₃	✓	✓			
		Methocel	✓	✓			
		PVA					
		NIKOL					
		GE-60					
		Colloids 581B					
		Colloids 991					
		EPDOL 9-5					
		IONOL CP	✓	✓			
		TAIR					

COLORITE 012186

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
1742	202500	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP. 223M	✓	✓			
		DHLW-80	✓				
		AVIROL (NaLSO ₄)	—				✓
		TAIC	✓	✓			
		TCE	—				
		AMMONIUM HYDROXIDE	✓	✓			
		TRIBUTYL PHOSPHATE	✓		✓		
		SODA ASH	—				
		TRISODIUM PHOSPHATE	—				
		TWEEN-20	—				
		TRIDECANOL	✓				✓

COLORITE 012187

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD.	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
1730	201000	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP, 223M	✓	✓			
		DHLW-80	✓				✓
		AVIROL(NaLSO ₄)	—				
		TAIC	—				
		TCE	—				
		AMMONIA(NH ₄ OH)	✓	✓			
		TRIBUTYL PHOSPHATE	✓		✓		
		SODA ASH	—				
		TRISODIUM PHOSPHATE	—				
		TWEEN-20	—				
		TRIDECANOL	—				

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
1716	200500	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP. 223M	✓	✓			
		DHLU-80	✓				✓
		AVIROL (NaLSO ₄)	—				
		TAIC	—				
		TCE	—				
		AMMONIA (NH ₄ OH)	✓	✓			
		TRIBUTYL PHOSPHATE	✓		✓		
		SODA ASH	—				
		TRISODIUM PHOSPHATE	—				
		TWEEN-20	—				
		TRIDECANOL	✓				✓

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
1732	201500	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP, 223M	✓	✓			
		DHLW-80	✓				✓
		AVIROL(NaLSO ₉)	—				
		TAIC	—				
		TCE	—				
		AMMONIA(NH ₄ OH)	✓	✓			
		TRIBUTYL PHOSPHATE	✓		✓		
		SODA ASH	—				
		TRISODIUM PHOSPHATE	—				
		TWEEN-20	—				
		TRIDECANOL	✓				✓

COLORITE 012190

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD.	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
1738	202000	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP. 223M	✓	✓			
		DHLW-80	✓				✓
		AVIROL (NaLSO ₉)	—				
		TAIC	—				
		TCE	—				
		AMMONIA (NH ₄ OH)	✓	✓			
		TRIBUTYL PHOSPHATE	✓		✓		
		SODA ASH	—				
		TRISODIUM PHOSPHATE	—				
		TWEEN-20	—				
		TRIDECANOL	✓				✓

COLORITE 012191

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
0565	200000	VCM	✓	✓			
		WATER	✓			✓	
		L.P.	✓	✓			
		LUP, 223M	✓	✓			
		DHLU-80	—				
		AVIROL (NaLSO ₄)	✓				✓
		TAIC	—				
		TCE	—				
		AMMONIA (NH ₄ OH)	—				
		TRIBUTYL PHOSPHATE	✓			✓	
		SODA ASH	✓			✓	
		TRISODIUM PHOSPHATE	✓			✓	
		TWEEN-20	✓	✓			
		TRIDECANOL	—				

COLORITE 012192

<u>PRODUCT NAME</u>	<u>PRODUCT CODE</u>	<u>RAW MAT'L'S. CHARGED</u>	<u>RAW MAT'L'S. IN FINAL PROD.</u>	<u>ESTIMATED AMT. OF RAW MATERIAL RETAINED</u>			
				<u><.5%</u>	<u>0.5-1.0%</u>	<u>1.0-2.0%</u>	<u>>2.0%</u>
1755	203500	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP, 223M	✓	✓			
		DHLU-80	—				
		AVIROL (NaLSO ₄)	✓				✓
		TAIC	—				
		TCE	—				
		AMMONIA (NH ₄ OH)	—				
		TRIBUTYL PHOSPHATE	✓		✓		
		SODA ASH	✓	✓			
		TRISODIUM PHOSPHATE	✓	✓			
		TWEEN-20	✓	✓			
		TRIDECANOL	—				

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD.	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
1757	204000	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP. 223M	✓	✓			
		DHLU-80	—				
		AVIROL (NaLSO ₄)	✓				✓
		TAIC	—				
		TCE	—				
		AMMONIA (NH ₄ OH)	—				
		TRIBUTYL PHOSPHATE	✓			✓	
		SODA ASH (CARBONATE)	✓	✓			
		TRISODIUM PHOSPHATE	✓	✓			
		TWEEN-20	✓	✓			
		TRIDECANOL	—				

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD.	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
1750	203000	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP, 223M	—				
		DHW-80	—				
		AVIROL(NaLSO ₄)	✓				✓
		TAIC	—				
		TCE	✓	✓			
		AMMONIA(NH ₄ OH)	—				
		TRIBUTYL PHOSPHATE	✓			✓	
		SODA ASH	✓	✓			
		TRISODIUM PHOSPHATE	✓	✓			
		TWEEN-20	—				
		TRIDECANOL	—				

COLORITE 012195

PRODUCT NAME	PRODUCT CODE	RAW MAT'L'S. CHARGED	RAW MAT'L'S. IN FINAL PROD.	ESTIMATED AMT. OF RAW MATERIAL RETAINED			
				<.5%	0.5-1.0%	1.0-2.0%	>2.0%
1756	203600	VCM	✓	✓			
		WATER	✓		✓		
		L.P.	✓	✓			
		LUP. 223M	✓	✓			
		DHLU-80	—				
		AVIROL (Na ₂ SO ₄)	✓				✓
		TAIC	—				
		TCE	—				
		AMMONIA (NH ₄ OH)	—				
		TRIBUTYL PHOSPHATE	✓			✓	
		SODA ASH	✓	✓			
		TRISODIUM PHOSPHATE	✓	✓			
		TWEEN-20	—				
		TRIDECANOL	—				