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VANDERBILT Minerals

Crop Protection Pesticide Formulations No. 921

Table 2. Flowable Concentrates from Un-Milled Active/In-Situ Clay Hydration

	No. 388 Carbaryl 4 lbs/gal	No. 386 Carbaryl 5 lbs/gal	No. 387 Atrazine 4 lbs/gal	No. 389 Sulfur 6 lbs/gal
VAN GEL® B	0.40%	0.40%	0.40%	0.50%
Magnesium Aluminum Silicate				
DARVAN® 2 Dispersant	2.00	3.50		
DARVAN 670			2.00	2.50
Water	41.24	25.78	41.42	34.09
Propylene Glycol	10.00	15.00	7.50	9.50
Surfynol® CT-211 ¹	0.10	0.10		0.10
Surfynol 104H ¹			0.50	
Atlox® 4896 ²			2.00	
Triton® X114 ³				0.15
Citric acid	0.08	0.08		
Triethanolamine			qs, pH 7	
Preservative	0.10	0.10	0.10	0.10
Carbaryl, 99% Tech.	46.00	55.00		
Atrazine, 98% Tech.			46.00	
Flour Sulfur				53.00
VANZAN®	0.08	0.04	0.08	0.06
Xanthan Gum				
Viscosity, cps^A				
1 Day	480	900	420	800
1 Month	460	880	420	780
3 Months	460	870	410	760
Stability, 3 months				
Gelation, 4/20/50°C	none	none	none	none
Bleed, 4/20/50°C	0/tr/1%	tr/tr/1%	0/0/tr	0/3%/tr
Packing, 4/20/50°C	none	none	none	none
Freeze/Thaw, 5 cycle	passed	passed	passed	passed
Bloom	passed	passed	passed	passed
Avg particle size, µm^B	3.1	4.5	2.7	2.7
pH	5.5	5.5	7.0	7.3
Density, lbs/gal	9.2	9.4	9.1	11.6

^ABrookfield, 60 rpm ^BCoulter

¹Air Products and Chemicals, Inc., Allentown, PA

²ICI Americas, Inc., Bridgewater, NJ

³Union Carbide Chemicals & Plastics Technology Corporation, Danbury, CT

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