

Comparison of Paints for Pacific Northwest National Laboratory

January 2003

Contact: S.D. Cannon, E-Mail: sandra.cannon@pnl.gov, Tel. 509-529-1535

Blank Squares = None Identified in Tests

Attributes	Benjamin Moore Self Declared Info Latex *super spec eggshell enamel 274 +super spec flat 275 % by Weight	Columbia Paint Self Declared Info Latex *semi-gloss enamel – 02-752 WB white and light tints % by Weight	Visions Recycling Certified Info Recycled Latex pearl white *semi gloss + flat % by Weight
Potentially Hazardous Properties			
1,2- benzothiazolin-3-0	+0.017% (Title V)		
3,5,7 triaza-1- azoniada-e chlo	+0.066% (Title V)		
Aluminum hydroxide	*0.981% (Title V)		
Aluminum silicate clay		*3.37% (Tel 11/19)	
Ammonia	*0.026% (Title V) +0.027%		
Amp 95 (pH Buffer-Non Ammonia Based)		*0.18% (Tel 11/19)	
Barium	conforms with OSHA/MSDS (Tel 1/21)	*conforms with OSHA/MSDS (Tel 1/15)	*+conforms with OSHA/MSDS (CA)
Bycyclicoxazolidine	*0.041% (Title V)		
Calcium carbonate	*1.7% (Title V) *16% (Title V)		
Chromium	conforms with OSHA/MSDS (Tel 1/21)	* conforms with OSHA/MSDS (Tel 1/15)	*+conforms with OSHA/MSDS (CA)
Ci pigment black 7	*0.004% (Title V) +0.005% (Title V)		
Ci pigment yellow 42	*0.062% (Title V) +0.076% (Title V)		
Copper	conforms with OSHA/MSDS (Tel 1/21)	* conforms with OSHA/MSDS (Tel 1/15)	*+conforms with OSHA/MSDS (CA)

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Diatomaceous earth	+7.6% (Title V) hazardous only when sanded (MSDS)		
Diocetyl sodium sulfosucc	+0.057% (Title V)		
Dipropylene glycol	+0.057% O(Title V)		
Dispersant [not specified]		*0.48% (Tel 11/19)	
Ethylene glycol Cas 107-21-1 % by weight	*0.001% (Title V) +0.002%	*1.79% (MSDS)	*1.12% +1.03%
Formaldehyde	*0.005 (Title V)		
Hexamethylene tetramine chloride	+0.003 (Title V)		
Hexavalent chromates, benzene, etc. 10 ppm maximum allowed		*0% (Tel 11/19)	Conforms (IL)
Hydro treated heavy naphthroleu	*0.583% (Title V)		
Hydroxy ethylcellulose	*0.365% (Title V) +0.586% (Title V)		
Iron oxide	+0.003% (Title V)		
Isopropylalcohol	*0.019% (Title V)		
Lead 0.06% max allowed	conforms with OSHA/MSDS (Tel 1/21)	*0% (Tel 11/19)	*+conforms with OSHA/MSDS (CA)
Nickel	conforms with OSHA/MSDS (Tel 1/21)	* conforms with OSHA/MSDS (Tel 1/15)	*+conforms with OSHA/MSDS (CA)
Non ionic surfactant	*0.004% (Title V) +0.358%		
Nonylphenoxy- polyethyletha	*0.217% (Title V)		
Petroleum defoamer	*0.567 (Title V) +0.36	*0.81% (Tel 11/19)	
Potassium Tripolyphosphate	+0.09% (Title V)	*0.09% (Tel 11/19)	

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Polyethylene glycol	+0.007% (Title V)		
Preservative [not specified]		*0.09% (Tel 11/19)	
Proprietary component	*0.001 (Title V) +0.001		
Propylene glycol	*2.7% (Title V) +0.306%		
Silica, crystalline	*2.75% (Title V) +0.008% (Title V) hazardous only when sanded (MSDS) or breathed from spray (TDS)	*0% (Tel 11/19)	Pigments with small amounts of silica; use particle mask when sanding if local ventilation inadequate (MSDS)
Silica amorphous	*0.589% (Title V) +0.352%	*0% (Tel 11/19)	
Sodium bicarbonate	+0.022% (Title V)		
Sodium hydroxide	+0.005% (Title V)		
Styrene		*0% (Tel 11/19)	
Surfactant [not specified]	*0.227% (Title V) +0.137%	*0.21% (Tel 11/19)	
Texanol	*1.4% (Title V) +1.4%	*1.43% (Tel 11/19)	
Thickener, alkali swellable		*0.38% (Tel 11/19)	
Thickener, cellulosic		*0.53% (Tel 11/19)	
Thickener, urethane		*1.04% (Tel 11/19)	
Titanium dioxide	*18% (Title V) +10% (Title V) hazardous only when sanded (MSDS)	*19.28% (Tel 11/19)	
Vanadium	conforms with OSHA/MSDS (Tel 1/21)	* conforms with OSHA/MSDS (Tel 1/15)	*+conforms with OSHA/MSDS (CA)
Vinyl Acrylic Polymer/Resin	*18% (Title V) +9.8% (Title V)	*34.93% (Tel 11/19)	
Zinc		* conforms with OSHA/MSDS (Tel 1/15)	*+conforms with OSHA/MSDS (CA)

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Physical Prop			
Mold			*+No mold spores
Odor		Slight ammonia (MSDS)	None (IL)
Organic vapors – open can (PNNL)	19-29 ppm	18-21 ppm	10-12 ppm
Organic vapors – painted board (PNNL)	7-21 ppm	7-9 ppm	6-8 ppm
Organic vapors – dry (PNNL)	5 minutes equal to background level	3 minutes equal to background level	5 minutes equal to background level
Vapor density	Heavier than air	Heavier than air (MSDS)	Lighter than air (MSDS) [?]
Volatile organic compounds 200 gr/lt max	*162.37 gr/lt (Title V) +74.65 gr/lt	*161 gr/lt (Tel 11/19)	<u>[new avg 17 gr/lt]</u> *71 gr/lt (CA) +151 gr/lt (CA) *82.6 gr/lt (IL) +165.5 gr/lt (IL)

Benjamin Moore, 51 Chestnut Ridge Road, Montvale, NJ 07645, Barry Jenkins, regulatory affairs specialist, Tel. 973-252-2650, faxing Title V sheet; other: Mirtha Bonet, Tel. 800-344-0400, ext. 2765, or Tel. 888-236-6667 or 201-573-9600

- MSDS 27400.04B – super spec latex eggshell enamel 274-74 – china white (<http://hazard.com/msds/mf/bmoore/files/274.html>), December 15, 1997
- TDS (<http://www.benjaminmoore.com/tds/1033/TDS274B.pdf>)
- MSDS – super spec latex flat 275-74 – china white (<http://hazard.com/msds/mf/bmoore/files/275.html>), December 15, 1997
- TDS (<http://www.benjaminmoore.com/tds/1033/TDS275B.pdf>)
- Title V = information required by Title V in state of New Jersey
- Per telephone from Regulatory Affairs Specialist January 21, 2003 – “Variable from batch to batch, relies on MSDS to confirm safety”

Columbia Paint Company, North 112 Haven Street/P.O. Box 4569, Spokane, WA 99202, Tel. 509-535-9741; www.columbiapaint.com; Telephone info from Jeff Wear (pronounced Wier - JWear@columbiapaint.com), Columbia Paint Lab Technician

- MSDS 15237 – latex semi-gloss enamel, August 21, 1990
- MSDS - 02-752-WB latex semi-gloss enamel - white & light tints (<http://hazard.com/msds/f/bsm/bsmwv.html>), February 12, 1992
- Per telephone from Lab Technician November 19, 2002
- Per telephone from Lab Technician January 15, 2003 – “No heavy metals as indicated by none appearing on the MSDS”

Visions Recycling, 4481 Kilzer Avenue, McClellan, CA 95652, Jerry Noel, Tel. 800-770-7664 or 916-564-9121

- +DL-13300A, DL Laboratories (Accredited by National Voluntary Laboratory Accreditation Program), January 7, 2002 – latex flat/low sheen
- *DL-13300B, DL Laboratories (Accredited by National Voluntary Laboratory Accreditation Program), January 7, 2002 – latex semi gloss
- +CA-020515-1, Calcoast Analytical Materials Chemistry (Certified by California Department of Health Services and the City of Los Angeles Department of Building Safety), June 21, 2002 and January 28, 2003 – pearl white flat
- *CA-020515-2, Calcoast Analytical Materials Chemistry (Certified by California Department of Health Services and the City of Los Angeles Department of Building Safety), June 21, 2002, January 28, 2003 – pearl white semi-gloss
- *+CA-
- +MSDS – Similar to OSHA 174 – recycled latex flat/eggshell, August 9, 2001

----- Original Message -----

From: "Taryn Breen" <TBreen@mcclellanpark.com>

To: <jerry@visionsrecycling.com>

Cc: "MP-Property Management" <MP-PropertyManagement@mcclellanpark.com>

Sent: Monday, September 30, 2002 2:56 PM

Subject: Paint quality feedback

Hi Jerry,

As you know, the contractor is in the process of painting the exterior of building 200 as part of the tenant improvements for the US Forestry Service. I thought that you'd like to know that the **painting contractor has high praise for your product. I am told that the flow, coverage, color, and workability of your paint product is quite good, among the best he's seen.**

Couple that with the fact that your pricing was extremely good, your on time delivery and service is excellent, in short, I have heard no complaints. When a paint supplier is needed, I look forward to specifying your product and Visions Recycling on my next job.

Sincerely,

**Taryn Breen
Vice President
Construction Manager
General Contractor #543624**