

(File under Didax)

Wolstenholme Bronze Powders Limited

Our ref. DK/SG

20th October 1982

Valvaline Colour Products Limited
Pottington Ind. Estate
Barnstaple
North Devon

For the attention of Mr. Rolleston

Dear Sir,

Further to our recent telephone conversation regarding compliance of our bronze and aluminium powders with the pencil and graphic instruments (Safety) regulations 1974, we have pleasure in informing you that both these types of product on our analysis do conform to this regulation.

Yours faithfully
for and on behalf of
WOLSTENHOLME BRONZE POWDERS LIMITED

PP *D. King*
D. King
Technical Service Manager

enc: H & S on Bronze powders and aluminium powders



TY 2361
(Gold & Silver)

Springfield Road, Sharples
Bolton BL1 7LJ
Tel: Bolton (0204) 52244
Telex 63251
Cables: Powders Bolton

Directors
PJE Rink
AA Rink
PM Haywood
PJ Kenward
RD Scott

Registered in England
at the above address
under No. 1394122

Soluble Toxic Metals Contents, Parts Per Million

	<u>Dark Blue Chalk</u>	<u>Yellow Chalk</u>	<u>Brown Chalk</u>
Lead	<10	<10	<10
Cadmium	<10	<10	<10
Chromium	<10	<10	<10
Barium	<20	<20	<20
Arsenic	<10	<10	<10
Antimony	<10	<10	<10
Mercury	<5	<5	<5

Chalks
and (e)
Metallic
Paints

	<u>Orange Chalk</u>	<u>Purple Chalk</u>	<u>MPC Silver Paint</u>
Lead	<10	<10	<10
Cadmium	<10	<10	<10
Chromium	<10	<10	<10
Barium	<20	<20	<20
Arsenic	<10	<10	<10
Antimony	<10	<10	<10
Mercury	<5	<5	<5

	<u>MPC Gold Paint</u>	<u>MPC Copper Paint</u>	<u>Specification Pencils & Graphic Instruments Regs.</u>
Lead	<10	<10	250 maximum
Cadmium	<10	<10	100 "
Chromium	<10	<10	100 "
Barium	<20	<20	500 "
Arsenic	<10	<10	100 "
Antimony	<10	<10	250 "
Mercury	<5	<5	100 "

CONCLUSIONS:

From the foregoing test results it can be seen that all the crayons, chalks and paints submitted, comply with the toxicity requirements of The Pencils and Graphic Instruments (Safety) Regulations, 1974.

The results of the examination refer only to the samples submitted and do not guarantee the bulk of the items from which the samples were obtained to be of equal quality.

.....
J. Haggan
.....
Manager/Analytical Services

.....
J. L. Phillipson
.....
Section Head

From: Charles A. Tacey
To: See Distribution below

15th October 1979
VLC/6

CCL 2 Crayons - Toxicity Level Data:

1. Clause 2 of the PENCILS AND GRAPHIC INSTRUMENTS SAFETY REGULATIONS 1974 Statutory Instrument No. 226 states the following maximum levels (parts per million) allowable of the metals listed if articles containing these metals are to fall within the safety limits:

Arsenic (soluble)	100 ppm
Lead (soluble)	250 ppm
Mercury (soluble)	100 ppm
Cadmium (soluble)	100 ppm
Chromium (hexavalent soluble)	100 ppm
Antimony (soluble)	250 ppm
Barium (soluble)	500 ppm

2. CCL crayons are made in batches of 150 kilograms. Of the total batch 'mix' various waxes and other substances of a wax-like nature contain parts of some of the toxic substances listed in the Safety Regulations, but at levels which are either very low or so small as to be below the 'limits of detection' used in the trade.
3. The pigment contained is approximately 4.5 kilograms (about 3% of the total).
4. The following observations are presented by the various suppliers from whom we buy our pigments:

Scarlet :)	'Based on analyses of random batches of the above pigments, we would expect them to conform to the purity limits laid down by this (Instrument No. 226) regulation.'
Yellow :)	
Magenta :)	
Geranium :)	
Blue lake :)	
Lake blue	'As the dilutant used to formulate Lake blue 23300N is Calcium Carbonate AR.TS Department confirm that, although Lake blue 23300N is not analytically tested, our current representative manufacture is below the limits of the toy, pencil and graphic instruments (Safety) Regulations - 1974.'
Blue :)	'Spot checks are carried out from time to time and have not revealed the presence of materials detailed in your letter in more than trace quantities'. 'We obviously supply to many companies working to the Regulations mentioned in your letter and to date have experienced no problems relating to these limits.'
Red :)	
Orange :)	
Green :)	
Violet (purple) :)	
Black	'Generally speaking, the results of these tests show that all our current blacks contain small amounts of these metals, but the amounts present are usually measured in single figure ppm, or even less.'
White	'In the case of white this product contains 40% Titanium Dioxide. From experience over a considerable time, we have found this particular Titanium Dioxide grade to contain less than 100 ppm of Lead, Arsenic, Mercury, Cadmium, Barium, Chromium and Antimony. Therefore the white (pigment) is likely to conform to the Regulations.'

(File under Dedap)

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545
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TY 2361
(Gold & Silver)

SUBJECT:

SEVERAL SAMPLES OF CRAYONS,
CHALKS AND PAINTS.

REPORT REFERENCE:

ALC.A.7369:0588

PREPARED BY:

AMTAC Laboratories Limited,
Norman Road,
Broadheath,
Altrincham,
WA14 4EP

PREPARED FOR:

Velva-Line Colour Products Ltd,
Upcott Avenue,
Pottington Industrial Estate,
Braunton Road,
Barnstaple, Devon.

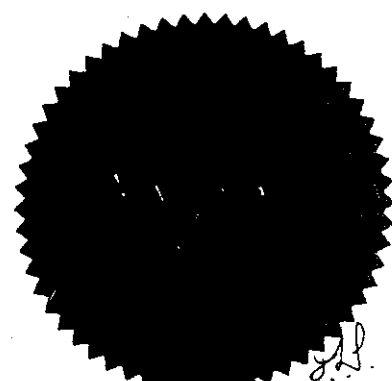
DATE

23rd June 1988.LMB

YOUR REF:

TR/KEB

For the attention of T. Rolleston



Soluble Toxic Metals Contents, Parts Per Million

(b)

CCL
Crayons

	<u>CCL</u> <u>Gold</u>	<u>CCL</u> <u>Copper</u>	<u>CCL</u> <u>Silver</u>	<u>CCL</u> <u>Mid</u> <u>Green</u>
Lead	<15	<10	<10	<15
Cadmium	<15	<10	<10	<15
Chromium	<15	<10	<10	<15
Barium	<15	<10	10	<15
Arsenic	<15	<10	<10	<15
Antimony	<15	<10	<10	<15
Mercury	<5	<5	<5	<5

	<u>CCL</u> <u>Sea</u> <u>Green</u>	<u>CCL</u> <u>Vernal</u> <u>Green</u>	<u>CCL</u> <u>Maroon</u>
Lead	<15	<15	<15
Cadmium	<15	<15	<15
Chromium	<15	<15	<15
Barium	<15	<15	<15
Arsenic	<15	<15	<15
Antimony	<15	<15	<15
Mercury	<5	<5	<5

	<u>CCL</u> <u>Bright</u> <u>Red</u>	<u>CCL</u> <u>Copper</u> <u>Brown</u>	<u>CCL</u> <u>Cerise</u>
Lead	<15	<15	<15
Cadmium	<15	<15	<15
Chromium	<15	<15	<15
Barium	<15	<15	<15
Arsenic	<15	<15	<15
Antimony	<15	<15	<15
Mercury	<5	<5	<5

	<u>CCL</u> <u>Mid</u> <u>Ochre</u>	<u>CCL</u> <u>Orange</u>	<u>CCL</u> <u>Royal</u> <u>Blue</u>
Lead	<15	<15	<15
Cadmium	<15	<15	<15
Chromium	<15	<15	<15
Barium	<15	<15	<15
Arsenic	<15	<15	<15
Antimony	<15	<15	<15
Mercury	<5	<5	<5

JJP

Soluble Toxic Metals Contents, Parts Per Million

	<u>CCL</u>	<u>CCL</u>	<u>CCL</u>
	<u>Azure</u>	<u>Magenta</u>	<u>Crimson</u>
	<u>Blue</u>		
Lead	<15	<15	<15
Cadmium	<15	<15	<15
Chromium	<15	<15	<15
Barium	<15	<15	<15
Arsenic	<15	<15	<15
Antimony	<15	<15	<15
Mercury	<5	<5	<5

	<u>CCL</u>	<u>CCL</u>	<u>CCL</u>
	<u>Black</u>	<u>Yellow</u>	<u>White</u>
Lead	<15	20	<15
Cadmium	<15	<15	<15
Chromium	<15	<15	<15
Barium	<15	<15	20
Arsenic	<15	<15	<15
Antimony	<15	<15	<15
Mercury	<5	<5	<5

(c)
Rubbing
Crayons

	<u>BR</u>	<u>BR</u>	<u>BR</u>
	<u>Silver</u>	<u>Gold</u>	<u>Black</u>
Lead	<15	<10	<15
Cadmium	<15	<10	<15
Chromium	<15	<10	<15
Barium	40	<25	<30
Arsenic	<15	<10	<15
Antimony	<15	<10	<15
Mercury	<5	<5	<5

	<u>BR</u>	<u>BR</u>
	<u>White</u>	<u>Copper</u>
Lead	<15	<10
Cadmium	<15	<10
Chromium	<15	<10
Barium	40	<25
Arsenic	<15	<10
Antimony	<15	<10
Mercury	<5	<5

(d)
Chalks

	<u>Dark</u>	<u>Red</u>	<u>Cerise</u>	<u>White</u>
	<u>Green</u>	<u>Chalk</u>	<u>Chalk</u>	<u>Chalk</u>
	<u>Chalk</u>			
Lead	<10	<10	15	<10
Cadmium	<10	<10	<10	<10
Chromium	<10	<10	<10	<10
Barium	<20	<20	<20	<20
Arsenic	<10	<10	<10	<10
Antimony	<10	<10	<10	<10
Mercury	<5	<5	<5	<5