



## HK HOLBEIN, INC

P.O. BOX 555, WILLISTON, VT. 05495-0555  
 Tel.: (802) 862-4573 Fax: (802) 658-5889  
 Toll free (800) 682-6686 / (888) HOLBEIN  
 Web site: www.holbeinhk.com

00494- all codes  
 except:—  
 - 0002  
 - 0005

### RESPONSE TO MATERIAL SAFETY DATA SHEET REQUEST

PRODUCT IDENTIFICATION : **HOLBEIN DUO AQUA OIL (6/08)**

#### STATEMENT OF TOXICOLOGICAL EVALUATION

This product line has been certified in a program of toxicological evaluation by a medical expert and review by a toxicological advisory Board (a certification program of the Art and Creative Materials Institute, Inc. )

#### STATEMENT OF HAZARDOUS MATERIALS

The colors which do pose an acute or chronic hazard to humans follow:

DU055 (DU255)	Cobalt Green Deep
DU091 (DU291)	Cobalt Violet

Material Safety Data Sheets (MSDS) are attached.

#### STATEMENT OF NON-HAZARDOUS MATERIALS

Due to the absence of recognized hazards in the balance of this product line no MSDS are required by the OSHA Hazard Communication Standard. However, good work practices dictate that care be taken to avoid ingestion and unnecessary skin contact and to provide adequate ventilation if spray applying or mixing dry materials in a confined area.

### HOLBEIN ARTIST MATERIALS

Manufacturers of World Class Professional Quality Artist Colors, Tools and Accessories.

Item Numbers: 00494-0009, 00494-0119, 00494-0139, 00494-0169, 00494-1014, 00494-1015, 00494-1024, 00494-1025, 00494-1103, 00494-1394, 00494-1395, 00494-2043, 00494-2253, 00494-2343, 00494-2503, 00494-2563, 00494-3003, 00494-3013, 00494-3023, 00494-3043, 00494-3053, 00494-3063, 00494-3083, 00494-3093, 00494-3173, 00494-3203, 00494-3273, 00494-3333, 00494-3393, 00494-3603, 00494-3713, 00494-3723, 00494-3743, 00494-3753, 00494-3763, 00494-3773, 00494-3903, 00494-4003, 00494-4013, 00494-4023, 00494-4043, 00494-4063, 00494-4083, 00494-4123, 00494-4143, 00494-4183, 00494-4193, 00494-4203, 00494-4273, 00494-4323, 00494-4453, 00494-4503, 00494-4513, 00494-4533, 00494-4543, 00494-4593, 00494-4743, 00494-4753, 00494-4773, 00494-4793, 00494-4903, 00494-4913, 00494-4923, 00494-5003, 00494-5043, 00494-5073, 00494-5103, 00494-5113, 00494-5163, 00494-5173, 00494-5183, 00494-5193, 00494-5203, 00494-5213, 00494-5223, 00494-5233, 00494-5253, 00494-5343, 00494-5373, 00494-5393, 00494-5453, 00494-5553, 00494-5653, 00494-5803, 00494-6033, 00494-6043, 00494-6063, 00494-6073, 00494-6513, 00494-6523, 00494-6683, 00494-6703, 00494-6903, 00494-6913, 00494-7003, 00494-7013, 00494-7023, 00494-7033, 00494-7043, 00494-7053, 00494-7063, 00494-7073, 00494-7093, 00494-7153, 00494-7163, 00494-7213, 00494-7223, 00494-7513, 00494-7563, 00494-7583, 00494-7663, 00494-7803, 00494-7903, 00494-7913, 00494-7923, 00494-7933, 00494-8003, 00494-8043, 00494-8053, 00494-8063, 00494-8073, 00494-8083, 00494-8343, 00494-8903, 00494-8913, 00494-8923, 00494-8933, 00494-9000, 00494-9093, 00494-1209



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### RESPONSE TO MATERIAL SAFETY DATA SHEET REQUEST

PRODUCT IDENTIFICATION : **HOLBEIN DUO AQUA OIL** (6/08)

#### STATEMENT OF TOXICOLOGICAL EVALUATION – California Proposition 65

This product line has been certified in a program of toxicological evaluation by a medical expert and reviewed by a toxicological advisory Board (a certification program of the Art and Creative Materials Institute, Inc.)

The colors which require Proposition 65 labeling for the State of California follow:

DU014 (DU214) Cadmium Red Deep  
 DU013 (DU213) Cadmium Red  
 DU018 (DU218) Cadmium Orange  
 DU021 (DU221) Naples Yellow  
 DU038 (DU238) Cadmium Yellow Deep  
 DU037 (DU237) Cadmium Yellow  
 DU036 (DU236) Cadmium Yellow Lemon  
 DU057 (DU257) Cadmium Green  
 DU056 (DU256) Cadmium Green Light

Material Safety Data Sheets (MSDS) are attached.

#### STATEMENT OF PROPOSITION 65 WARNINGS

California Proposition 65 warnings are required when content of heavy metals exceed one (1) part per million. The balance of this product line requires no Proposition 65 labeling. No MSDS are required by the OSHA Hazard Communication Standard. Good work practices dictate that care be taken to avoid ingestion and unnecessary skin contact and to provide adequate ventilation if spray applying or mixing dry materials in a confined area.

### HOLBEIN ARTIST MATERIALS

Manufacturers of World Class Professional Quality Artist Colors, Tools and Accessories

Item Numbers: 00494-0009, 00494-0119, 00494-0131, 00494-0189, 00494-0191, 00494-0193, 00494-0201, 00494-0203, 00494-0205, 00494-0207, 00494-0209, 00494-0211, 00494-0213, 00494-0215, 00494-0217, 00494-0219, 00494-0221, 00494-0223, 00494-0225, 00494-0227, 00494-0229, 00494-0231, 00494-0233, 00494-0235, 00494-0237, 00494-0239, 00494-0241, 00494-0243, 00494-0245, 00494-0247, 00494-0249, 00494-0251, 00494-0253, 00494-0255, 00494-0257, 00494-0259, 00494-0261, 00494-0263, 00494-0265, 00494-0267, 00494-0269, 00494-0271, 00494-0273, 00494-0275, 00494-0277, 00494-0279, 00494-0281, 00494-0283, 00494-0285, 00494-0287, 00494-0289, 00494-0291, 00494-0293, 00494-0295, 00494-0297, 00494-0299, 00494-0301, 00494-0303, 00494-0305, 00494-0307, 00494-0309, 00494-0311, 00494-0313, 00494-0315, 00494-0317, 00494-0319, 00494-0321, 00494-0323, 00494-0325, 00494-0327, 00494-0329, 00494-0331, 00494-0333, 00494-0335, 00494-0337, 00494-0339, 00494-0341, 00494-0343, 00494-0345, 00494-0347, 00494-0349, 00494-0351, 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## Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with Occupational Safety and Health Administration OSHA's Hazard Communication Standard. (Non-Mandatory Form) 29 CFR 1910.1200.

Standard must be Form Approved consulted for specific requirements. OMB No. 1218-0072

### Section 1 - Identity Information

Product Name (as used on label and list)	DUO (Aua Oil), Holbein Water Soluble Oil Color
Manufacturer	HOLBEIN Works, Ltd.
Address	1-3-20, Kamikosaka, Higashi-osaka-shi, OSAKA 577-0806 JAPAN
Telephone Number for information	81-6-6723-1555
Emergency Telephone Number	81-72-985-1223
Date Prepared	2008-5-20
Preparer	ALAKI, Yutaka

### Section 2- Hazard Identification

This product is not classified as dangerous for supply or conveyance.  
No toxics or toxic off-gassing is present.

### Section 3- Composition / Ingredients

Components (Specific Chemical Identity, Common Name(s))	
Pigment *	: Appendix table
Vegetable Oil *, **	: CH <sub>2</sub> —OCOR   CH—OCOR      CAS No. 8001-26-1   CH <sub>2</sub> —OCOR      or others
Silicone Dioxide (Modeling agent)***	: SiO <sub>2</sub>
Metallic Soap (Drier)****	: ex: (RCOO) <sub>2</sub> Co      CAS No. 61789-51-3
Polyoxyethylene Alkyl Ether (Surface Activator):	—      CAS No. 68131-40-8

\* : Main ingredient

\*\* : Linseed oil, Poppy oil or Safflower Oil (Triglyceride of Linolic acid, Linolenic acid Oleic acid or Palmitic acid)

\*\*\* : In some colors, may be altered with Calcium Carbonate or no body-pigment.

\*\*\*\* : Naphthenate or Octoate of Cobalt, Manganese or Zirconium. In some colors, not applied.

### Section 4- First Aid Measures:

Eyes :	In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.
Ingestion :	Drink some glasses of water and induce vomiting. If CL is shown on label, confirm name of pigment with appendix of this sheet and seek medical attention.

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Skin Contact : Wash with mild soap and water.  
 Inhalation : N/A

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#### Section 5- Fire and Explosion Hazard Data

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Flammability : Flammable  
 Flash Point : 306°C (As Linseed Oil. Not examined about products)  
 Combustion Products: Carbon monoxide and oxides of metals  
 Extinguishing Media : Water mist, Foam, Dry powder, CO2  
 Special Procedures: Firefighters should wear full-body protection & SCBA  
 Unusual Fire and Explosion Hazards : Oil dries by oxygen. Rags or waste soaked with oil may spontaneously catch fire if improperly discarded. Not exclusive.

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#### Section 6- Accidental Release Measures

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Wipe out.

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#### Section 7- Handling and Storage

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Precautions to Be Taken in Handling and Storing :  
 Avoid prolonged or repeated contact with skin and eyes. Use soap and water for clean-up.

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#### Section 8 - Exposure Controls / Personal Protection

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Especially none

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#### Section 9 - Physical / Chemical Characteristics

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Appearance : Colored paste.  
 Odor : Oily  
 Specific Gravity (H2O = 1) : 1.3~2.3 (Av.1.82)  
 Boiling Point : N/A  
 pH : N/A  
 Solubility in Water : Soluble

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#### Section 10 - Stability and Reactivity Data

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Stability : Stable under normal state  
 Byproducts : Carbon dioxide and oxides of metals in case of fire.  
 Incompatibility (Materials to Avoid) : None  
 Hazardous Decomposition or Byproducts :  
 No thermal decomposition when stored and handled correctly.  
 Corrosive Behavior : None

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#### Section 11 - Toxicological Information

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Primary Routes of Entry : Dermal, eye contact, swallowing, ingestion  
 Oral Toxicity : Depend on pigment. Even if hazardous, doesn't act acutely.  
 Although not be regarded as toxic, DUO is not suitable for human body.  
 In case of swallowing, drink plenty of water. Induce vomiting.  
 If you feel unwell, seek medical advice.

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Effects of Acute Exposure : None known  
 Effects of Chronic Exposure : None known

Skin irritation : Usually non irritant. Upon skin contact, wash with soap or other non-irritating cleansing agents.  
 Eye irritation : Usually non irritant. In case of eye contact, rinse with plenty of water and consult an eye specialist if necessary.  
 Carcinogenicity : N/A. DUO does not react as carcinogen.  
 Sensitization : Not expected  
 Mutagenicity : N/A  
 Teratogenicity : None known

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#### Section 12 - Ecological Information

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No suitable information

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#### Section 13- Disposal Considerations

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Disposal Considerations : As being filled in aluminium tube, DUO may be treated as incombustible according to all federal, state or governmental regulations.  
 Stained cloths or papers which has been used to wipe or so on are so flammable that they had better been wetted with water.

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#### Section 14- Transport Information

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Hazard Class : Non-regulated

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#### Section 15- Regulatory Information

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Conforms to ACMI, Art & Creative Materials Institute, under ASTM D 4236.

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#### Section 16- Other Information

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Notice: The information of this sheet is based on the present state of our knowledge and does not therefore guarantee certain properties.

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## Appendix table

#6	#9	NAME	C.I. Name	Chemical Name
1	201	Alizarin Crimson	PR83	Alizarin Lake
2	202	Rose Madder	PR209	Quinacridone Pigment
			PR221	Quinacridone Pigment
3	203	Rose Dore	PR144	Condensed Azo Pigment
5	205	Cadmium Red Hue	PR254	Diketo-Pyrrolo-Pyrrol
6	206	Cadmium Red Deep Hue	PR170	Monoazo Pigment
7	207	Cadmium Red Purple Hue	PR170	Monoazo Pigment
8	208	Vermilion Hue	PR188	Monoazo Pigment
			PO73	Diketo-Pyrrolo-Pyrrol
9	209	Anthraquinone Red	PR177	Anthraquinoid Pigment
10	210	Quinacridone Red	PV19	Quinacridone Pigment
11	211	Quinacridone Scarlet	PR209	Quinacridone Pigment
12	212	Naphthol Red	PR170	Monoazo Pigment
13	213	Cadmium Red	PR108	Cadmium Sulfo-Selenide
14	214	Cadmium Red Deep	PR108	Cadmium Sulfo-Selenide
15	215	Coral Red	PR188	Monoazo Pigment
			PY3	Monoazo Pigment
			PW6	Titanium Dioxide
16	216	Brilliant Pink	PR112	Monoazo Pigment
			PW6	Titanium Dioxide
18	218	Cadmium Orange	PR108	Cadmium Sulfo-Selenide
19	219	Imidazolone Orange	PO36	Benzimidazolone
21	221	Naples Yellow	PY35	Cadmium Sulfide
			PY42	Hydrous Iron Oxide
			PW6	Titanium Dioxide
22	222	Naples Yellow Light	PY53	Nickel-Antimony Titanate
			PY42	Hydrous Iron Oxide
23	223	Jaune Brillant	PY3	Monoazo Pigment
			PR188	Monoazo Pigment
			PW6	Titanium Dioxide
25	225	Yellow Ochre Natural	PY43	Hydrous Iron Oxide(Native Earth)
26	226	Imidazolone Yellow	PY180	Benzimidazolone
27	227	Imidazolone Yellow Light	PY154	Benzimidazolone
28	228	Lemon Yellow	PY53	Nickel-Antimony Titanate
			PY81	Disazo Pigment
			PW4	Zinc Oxide
29	229	Yellow Ochre	PY42	Hydrous Iron Oxide
30	230	Aureolin Hue	PY1	Monoazo Pigment
			PR101	Iron Oxide
			PW6	Titanium Dioxide
31	231	Cadmium Yellow Light Hue	PY74	Monoazo Pigment
			PY83	Disazo Pigment
			PW6	Titanium Dioxide
32	232	Cadmium Yellow Hue	PY74	Monoazo Pigment
			PY170	Disazo Pigment
			PW6	Titanium Dioxide
33	233	Cadmium Yellow Deep Hue	PY74	Monoazo Pigment
			PR188	Monoazo Pigment
			PW6	Titanium Dioxide

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34	234	Indian Yellow	PY83 PR101	Disazo Pigment Iron Oxide
35	235	Greenish Yellow	PY83 PR83 PG7	Disazo Pigment Alizarin Lake Polychloro Copper Phthalocyanine
36	236	Cadmium Yellow Lemon	PY35	Cadmium Sulfide, Zinc Sulfide
37	237	Cadmium Yellow	PY35	Cadmium Sulfide, Zinc Sulfide
38	238	Cadmium Yellow Deep	PO20	Cadmium Sulfo-Selenide
39	239	Benzidine Yellow	PY83	Disazo Pigment
40	240	Viridian Hue	PG7 PG8	Polychloro Copper Phthalocyanine Nitroso Pigment
41	241	Emerald Green Nova	PG7 PY81 PW6	Polychloro Copper Phthalocyanine Disazo Pigment Titanium Dioxide
43	243	Terre Verte Hue	PY43 PG8	Hydrous Iron Oxide (Native Earth) Nitroso Pigment
44	244	Sap Green	PY95 PG7	Condensed Azo Pigment, Polychloro Copper Phthalocyanine
45	245	Cadmium Green Light Hue	PR122 PY74 PY53	Quinacridone Pigment Monoazo Pigment Nickel-Antimony Titanate
46	246	Cadmium Green Hue	PG7 PY74 PY53	Polychloro Copper Phthalocyanine Monoazo Pigment Nickel-Antimony Titanate
47	247	Cadmium Green Deep Hue	PB15 PY74 PB15	Copper Phthalocyanine Monoazo Pigment Copper Phthalocyanine
48	248	Yellow Green	PW6 PY1 PG7	Titanium Dioxide Monoazo Pigment Polychloro Copper Phthalocyanine
49	249	Prussian Green	PW6 PB27 PY53	Titanium Dioxide Ferriferrocyanide Nickel-Antimony Titanate
50	250	Leaf Green	PY74 PY81 PY119 PG7	Monoazo Pigment Disazo Pigment Iron Zinc Oxide Polychloro Copper Phthalocyanine
51	251	Olive Green	PW6 PB29 PY95 PR83	Titanium Dioxide Ultramarine Condensed Azo Pigment Alizarin Lake
52	252	Phthalo Green	PG8 PG7	Nitroso Pigment Polychloro Copper Phthalocyanine
53	253	Phthalo Green Yellow Shade	PG36	Polychloro-Bromo Copper Phthalocyanine
54	254	Cobalt Green Light	PG19	Cobalt-Titanium-Nickel-Zinc Oxide
55	255	Cobalt Green Deep	PG19	Zinc-Cobalt Oxide
56	256	Cadmium Green Light	PY35 PG7	Cadmium-Zinc Sulfide Polychloro Copper Phthalocyanine
57	257	Cadmium Green	PY35 PG7	Cadmium-Zinc Sulfide Polychloro Copper Phthalocyanine
58	258	Shadow Green	PBk31	Perylene Pigment

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61	261	Ice Green	PG7	Polychloro Copper Phthalocyanine
			PW6	Titanium Dioxide
71	271	Cerulean Blue Hue	PB29	Ultramarine
			PB15	Copper Phthalocyanine
			PW6	Titanium Dioxide
72	272	Ultramarine Light	PB29	Complex Of Silica, Alumina, Soda & Sulphur
				symn.
83	283	Ultramarine Deep	PB29	Ferriferrocyanide
73	273	Prussian Blue	PB27	Ultramarine
74	274	Indigo	PB29	Ferriferrocyanide
			PB27	Carbon
			PBk7	Ultramarine
75	275	Cobalt Blue Hue	PB29	Copper Phthalocyanine
			PB15	Zinc Oxide
			PW4	Copper Phthalocyanine
76	276	Turquoise Blue	PB15	Polychloro Copper Phthalocyanine
			PG7	Titanium Dioxide
			PW6	Ultramarine
77	277	Navy Blue	PB29	Polychloro Copper Phthalocyanine
			PG7	Cobalt-Aluminum-Titanium Oxide
78	278	Manganese Blue Nova	PB28	Copper Phthalocyanine
			PB15	Cobalt Stannate
80	280	Cerulean Blue	PB35	Cobalt Aluminate
81	281	Cobalt Blue	PB28	Cobalt Aluminum Titanium Oxide
82	282	Cobalt Turquoise	PB28	Titanium Dioxide
84	284	Verditer Blue	PB28	Titanium Dioxide
			PW6	Copper Phthalocyanine
85	285	Horizon Blue	PB15	Titanium Dioxide
			PW6	Copper Phthalocyanine
87	287	Phthalo Blue	PB15	Indanthrone
88	288	Indanthrene Blue	PB60	Cobalt Lithium Phosphate
91	291	Cobalt Violet	PV47	Manganese Phosphate
92	292	Mineral Violet	PV16	Quinacridone Pigment
93	293	Quinacridone Violet	PV19	Dioxazine Pigment
94	294	Dioxazine Violet	PV23	Ultramarine
95	295	Mauve	PB29	Quinacridone Pigment
			PR122	Quinacridone Pigment
97	297	Rose Violet	PR122	Quinacridone Pigment
100	300	Light Magenta	PV19	Quinacridone Pigment
			PR209	Titanium Dioxide
			PW6	Dioxazine Pigment
101	301	Lilac	PV23	Titanium Dioxide
			PW6	Ultramarine Violet
102	302	Lavender	PV15	Ultramarine
			PB29	Titanium Dioxide
			PW6	Iron Oxide
111	311	Terra Rosa	PR101	Iron Zinc Oxide
			PY119	Quinacridone Pigment
112	312	Quinacridone Gold	PO48	Benzimidazolone
			PY180	Benzimidazolone
113	313	Imidazolone Brown	PBr25	Iron-Manganese Oxide-Hydroxide
115	315	Raw Umber	PBr7	

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116	316	Raw Sienna	PY43	(Native Earth)
117	317	Burnt Umber	PBr6	Hydrous Iron Oxide (Native Earth)
118	318	Burnt Sienna	PBr7	Iron-Manganese Oxide
119	319	Sepia	PBk9	Iron Oxide(Native Earth)
			PBr6	Carbon, Calcium Phosphate
			PBr6	Iron-Manganese Oxide
			PBr7	Iron Oxide (Native Earth)
120	320	Brown Pink	PR101	Iron Oxide
			PY83	Disazo Pigment
136	336	Payne's Grey	PB29	Ultramarine
			PBk11	Ferroso-Ferric Oxide
146	346	Grey Of Grey	PBk11	Ferroso-Ferric Oxide
			PY42	Hydrous Iron Oxide
			PW6	Titanium Dioxide
150	350	Ivory Black	PBk9	Carbon,Calcium Phosphate
152	352	Spinel Black	PBk28	Copper Chromite Black Spinel
160	360	Permanent White	PW6	Titanium Dioxide
161	361	Titanium White	PW6	Titanium Dioxide
162	362	Ceramic White	-	Strontium Titanate
170	370	Luminous Opera	-	Fluorescent Pigment
172	372	Luminous Orange	-	Fluorescent Pigment
173	373	Luminous Lemon	-	Fluorescent Pigment
174	374	Luminous Green	-	Fluorescent Pigment
175	375	Luminous Violet	-	Fluorescent Pigment