



## Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

### Section 1 – IDENTITY INFORMATION

Product Name	<b>Holbein Artists' Oil Color (HOC)</b>
Manufacturer Address	HOLBEIN Works, Ltd. 1-3-14, Hishiya-nishi, Higashi-osaka-shi, OSAKA 577-0807 JAPAN
Telephone Number for information	81-6-6723-1555
Emergency Telephone Number	81-72-985-1223
Date Prepared	2013-6-6
Preparer	ALAKI, Yutaka

### Section 2- HAZARD IDENTIFICATION

This product is not classified as dangerous for supply or conveyance.

Classification :	Non-regulated
Danger :	Not explosive. Not nonflammable (vegetable oil)
GHS label elements :	Void
Hazard information :	Practically not at harmful level. Some colors are indicated to be noted on catalog. Three colors contain a slight amount of petroleum distillates. (cf. Section 11 TOXICOLOGICAL INFORMATION)
Skin Irritation :	Category 3 (Long time or repeated contact may irritate to skin.)
Eye Effects :	Category 3 (When into eyes, may cause keratitis.)
Ingestive Effects :	Depends on individuals

### Section 3- COMPOSITION / INGREDIENTS

Mixture of some ingredients

Components (Specific Chemical Identity, Common Name(s))

Pigment (Colorant) *	: shown on table of catalog	
Silicone Dioxide (Modeling agent) **	: SiO <sub>2</sub>	
Vegetable Oil *, *** (Binder)	: CH <sub>2</sub> —OCOR   CH—OCOR   CH <sub>2</sub> —OCOR	CAS No. 8001-26-1 or others
Metallic Soap (Drier)****	: ex; (RCOO) <sub>2</sub> Co	CAS No. 61789-51-3

\*: Main ingredient

\*\* : Only in specified colors. May be altered with Aluminium Hydroxide, Calcium Carbonate.

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

\*\*\*\*: 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 plenty of water. Induce vomiting. If you feel unwell, contact and tell us the pigment information with the number shown as C.I. No. to confirm the ingredient

Item Numbers: 00425-0049, 00425-0129, 00425-0189, 00425-0209, 00425-0249, 00425-0329, 00425-1004, 00425-1009, 00425-1012, 00425-1014, 00425-1025, 00425-1034, 00425-1035, 00425-1042, 00425-1043, 00425-1174, 00425-1184, 00425-1185, 00425-1195, 00425-1394, 00425-1395, 00425-1634, 00425-1674, 00425-1675, 00425-2002, 00425-2022, 00425-2023, 00425-2222, 00425-2223, 00425-2252, 00425-2253, 00425-2504, 00425-2542, 00425-2543, 00425-2562, 00425-2563, 00425-2612, 00425-2613, 00425-2614, 00425-2615, 00425-2622, 00425-2623, 00425-3002, 00425-3003, 00425-3004, 00425-3010, 00425-3012, 00425-3013, 00425-3022, 00425-3023, 00425-3032, 00425-3033, 00425-3042, 00425-3043, 00425-3052, 00425-3053, 00425-3062, 00425-3063, 00425-3072, 00425-3073, 00425-3092, 00425-3093, 00425-3152, 00425-3153, 00425-3172, 00425-3173, 00425-3174, 00425-3202, 00425-3203, 00425-3242, 00425-3243, 00425-3252, 00425-3253, 00425-3282, 00425-3283, 00425-3284, 00425-3292, 00425-3294, 00425-3332, 00425-3333, 00425-3342, 00425-3343, 00425-3412, 00425-3413, 00425-3502, 00425-3503, 00425-3702, 00425-3703, 00425-3712, 00425-3713, 00425-3722, 00425-3723, 00425-3724, 00425-3732, 00425-3733, 00425-3742, 00425-3743, 00425-3752, 00425-3753, 00425-3762, 00425-3763, 00425-3772, 00425-3773, 00425-3782, 00425-3783, 00425-3792, 00425-3793, 00425-3802, 00425-3803, 00425-3812, 00425-3813, 00425-3822, 00425-3823, 00425-3832, 00425-3833, 00425-3902, 00425-3903, 00425-3922, 00425-3923, 00425-3932, 00425-3933, 00425-3942, 00425-3943, 00425-4002, 00425-4003, 00425-4004, 00425-4012, 00425-4013, 00425-4032, 00425-4033, 00425-4042, 00425-4043, 00425-4052, 00425-4053, 00425-4062, 00425-4063, 00425-4072, 00425-4073, 00425-4122, 00425-4123, 00425-4132, 00425-4133, 00425-4142, 00425-4143, 00425-4162, 00425-4163, 00425-4182, 00425-4183, 00425-4202, 00425-4203, 00425-4272, 00425-4273, 00425-4302, 00425-4303, 00425-4382, 00425-4383, 00425-4392, 00425-4393, 00425-4532, 00425-4533, 00425-4552, 00425-4553, 00425-4642, 00425-4643, 00425-4672, 00425-4673, 00425-4712, 00425-4713, 00425-4812, 00425-4813, 00425-4832, 00425-4833, 00425-4872, 00425-4873, 00425-4902, 00425-4903, 00425-4912, 00425-4913, 00425-4922, 00425-4923, 00425-4932, 00425-4933, 00425-5002, 00425-5003, 00425-5004, 00425-5012, 00425-5013, 00425-5042, 00425-5043, 00425-5112, 00425-5113, 00425-5152, 00425-5153, 00425-5161, 00425-5162, 00425-5163, 00425-5172, 00425-5173, 00425-5182, 00425-5183, 00425-5192, 00425-5193, 00425-5202, 00425-5203, 00425-5222, 00425-5223, 00425-5232, 00425-5233, 00425-5252, 00425-5253, 00425-5302, 00425-5303, 00425-5372, 00425-5373, 00425-5382, 00425-5383, 00425-5392, 00425-5393, 00425-5452, 00425-5453, 00425-5652, 00425-5653, 00425-5812, 00425-5813, 00425-5862, 00425-5863, 00425-5892, 00425-5893, 00425-5912, 00425-5913, 00425-5922, 00425-5923, 00425-6502, 00425-6522, 00425-6523, 00425-6532, 00425-6533, 00425-6582, 00425-6583, 00425-6584, 00425-6632, 00425-6633, 00425-6681, 00425-6682, 00425-6683, 00425-6702, 00425-6703, 00425-6912, 00425-6913, 00425-7002, 00425-7003, 00425-7004, 00425-7012, 00425-7013, 00425-7022, 00425-7023, 00425-7052, 00425-7053, 00425-7072, 00425-7073, 00425-7082, 00425-7083, 00425-7092, 00425-7093, 00425-7102, 00425-7103, 00425-7112, 00425-7113, 00425-7122, 00425-7123, 00425-7132, 00425-7133, 00425-7162, 00425-7163, 00425-7172, 00425-7173, 00425-7192, 00425-7193, 00425-7212, 00425-7213, 00425-7222, 00425-7223, 00425-7332, 00425-7333, 00425-7542, 00425-7543, 00425-7552, 00425-7553, 00425-7582, 00425-7583, 00425-7622, 00425-7623, 00425-7662, 00425-7663, 00425-7682, 00425-7683, 00425-7903, 00425-7912, 00425-7913, 00425-7914, 00425-7915, 00425-7932, 00425-7933, 00425-7952, 00425-7953, 00425-8021, 00425-8031, 00425-8042, 00425-8043, 00425-8052, 00425-8053, 00425-8060, 00425-8061, 00425-8062, 00425-8063, 00425-8072, 00425-8073, 00425-8082, 00425-8083, 00425-8312, 00425-8313, 00425-8482, 00425-8483, 00425-8534, 00425-8902, 00425-8903, 00425-8912, 00425-8913, 00425-8922, 00425-9002, 00425-9003, 00425-9032, 00425-9033, 00425-9302, 00425-9303

Skin Contact : pigment. Seek medical attention according to name of pigment.  
Wash with mild soap and water.

### Section 5- FIRE AND EXPLOSION HAZARD DATA

Flash Point : 306°C (As Linseed Oil. Not examined about products)  
Extinguishing Media : Water mist, Foam, Dry powder, CO<sub>2</sub>  
Unusual Fire and Explosion Hazards : Oil dries by oxygen. Rags or waste soaked with oil may spontaneously catch fire if improperly discarded. Not exclusive.

### Section 6- ACCIDENTAL RELEASE MEASURES

Step to Be Taken in Case Material Is Released or Spilled :  
Wipe out with rag or waste. Avoid entry into the sewage system (Drying oil may cause of clogging).

### Section 7- HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing :  
Avoid prolonged or repeated contact with skin and eyes.  
Storage Requirements : Store below 50°C. Keep container closed tightly to prevent drying out.

### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

None (No data on products)

### Section 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Colored paste with heavy viscosity  
Volatile : None  
Odor : as vegetable oil  
Specific Gravity (H<sub>2</sub>O = 1) : 1.1~3.5 (av:1.78)  
Boiling Point : N/A  
pH : N/A  
Solubility in Water : Insoluble. Soluble in organic solvent

### Section 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers : Not nonflammable (vegetable oil)  
Stability : Stable under normal state  
Reactivity : None  
Byproducts : Carbon dioxide, oxides of metals and water in case of fire.  
Incompatibility (Materials to Avoid) : None  
Hazardous Decomposition or Byproducts : Products small amount of peroxides or aldehydes while dry or under high temperature. In case of fire, formation of carbon dioxide, water and oxides of metal (depending each pigments).

### Section 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, swallowing  
Oral Toxicity (LC<sub>50</sub>) : Differs by each colors. Not heavy if swallowed, nevertheless using harmful pigments. Even if hazardous, doesn't practically act acutely.

The harmful pigments are noted on catalog as follows ;

Cadmium group, Naples group (except French), Jaune Brillant group and Coral Red : Contains soluble Cadmium which may be harmful by ingestion. Exposure may cause damage to the kidneys or testes or harm to the developing fetus. Inhalation may cause lung damage.

Cobalt group : Contains soluble Cobalt which may be harmful if swallowed. Exposure may damage heart or lungs.

Peach Black : Contains soluble Copper which may be harmful if swallowed. Exposure may cause anemia.

Silver White, Foundation group : Except from Japanese Poisonous and Deleterious Substances Control Law. According to the amount or period, may cause fatigue, headache, skin pallor, anaemia or sensory obstacle.

Gold, Silver and Quick Drying White contain a slight amount of petroleum distillates.

Skin irritation : Usually non irritant. Upon skin contact, wash with soap or other non-irritating cleansing agents.

Eye irritation : None. Usually non irritant, but hurtable. When into eyes, may cause

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Carcinogenicity : keratitis.  
Cadmium and Cobalt pigments are listed as carcinogen. No data available on products.  
Sensitization : Not expected  
Mutagenicity : N/A  
Teratogenicity : None known

**Section 12 – ECOLOGICAL INFORMATION**

No suitable information

**Section 13– DISPOSAL CONSIDERATIONS**

Disposal Considerations : May be transported to incinerator or if necessary after suitable conditioning to refuse dump if local regulations are observed.  
As being filled in aluminium tube, this products may be treated as incombustible according to 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.

**Section 14– TRANSPORT INFORMATION**

Transport Hazard Class : Non-regulated. Out of case of general notice on flammability.

**Section 15– REGULATORY INFORMATION**

Ready to be conformed to ACMI, Art & Creative Materials Institute, under ASTM D 4236.  
Industrial Safety and Health Law : N/A  
Fire Service Law : Dangerous Materials Group 4  
High Pressure Gas Safety Law : N/A

**Section 16– OTHER INFORMATION**

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

**Appendix**

**Table COLOR INFORMATION**

Cd	Cadmium	Brown Pink	-	
Co	Cobalt	Burnt Sienna	-	
Cu	Copper	Burnt Umber	-	
Hg	Mercury	Cadmium Green	Cd	AP
Pb	Lead	Cadmium Green Deep	Cd	AP
Se-Cd	Selenium-Cadmium	Cadmium Green Light	Cd	AP
Solv.	Petroleum distillates	Cadmium Green Pale	Cd	AP
		Cadmium Maroon	Se-Cd	CL
		Cadmium Orange	Se-Cd	AP
AP	Approved Product : Contain no materials in sufficient quantities to be toxic or injurious to humans.	Cadmium Orange Red Shade	Se-Cd	AP
		Cadmium Orange Yellow Shade	Se-Cd	AP
CL	Cautionary Label : Any known health risks and with information on the safe and proper use of these materials	Cadmium Red	Se-Cd	AP/CL
		Cadmium Red Deep	Se-Cd	AP
		Cadmium Red Light	Se-Cd	CL
AP/CL	AP on small tube (20ml), CL on large tube (40ml)	Cadmium Red Purple	Se-Cd	CL
		Cadmium Yellow	Se-Cd	AP
		Cadmium Yellow Deep	Se-Cd	AP
		Cadmium Yellow Lemon	Cd	AP/CL
		Cadmium Yellow Light	Cd	AP
		Cadmium Yellow Pale	Cd	AP/CL
		Carmine	-	
		Cerulean Blue Red Shade	Co	AP
		Cerulean Blue	Co	AP
		Cerulean Blue Hue	-	
		Charcoal Grey	-	
		Chinese Red	-	
		Chinese Vermilion	Hg	AP
		Cinnabar Green	-	

Item Numbers: 00425-0049, 00425-0129, 00425-0189, 00425-0209, 00425-0249, 00425-0329, 00425-1004, 00425-1009, 00425-1012, 00425-1014, 00425-1025, 00425-1034, 00425-1035, 00425-1042, 00425-1043, 00425-1174, 00425-1184, 00425-1185, 00425-1195, 00425-1394, 00425-1395, 00425-1634, 00425-1674, 00425-1675, 00425-2002, 00425-2022, 00425-2023, 00425-2222, 00425-2223, 00425-2252, 00425-2253, 00425-2504, 00425-2542, 00425-2543, 00425-2562, 00425-2563, 00425-2612, 00425-2613, 00425-2614, 00425-2615, 00425-2622, 00425-2623, 00425-3002, 00425-3003, 00425-3004, 00425-3010, 00425-3012, 00425-3013, 00425-3022, 00425-3023, 00425-3032, 00425-3033, 00425-3042, 00425-3043, 00425-3052, 00425-3053, 00425-3062, 00425-3063, 00425-3072, 00425-3073, 00425-3092, 00425-3093, 00425-3152, 00425-3153, 00425-3172, 00425-3173, 00425-3174, 00425-3202, 00425-3203, 00425-3242, 00425-3243, 00425-3252, 00425-3253, 00425-3282, 00425-3283, 00425-3284, 00425-3292, 00425-3294, 00425-3332, 00425-3333, 00425-3342, 00425-3343, 00425-3412, 00425-3413, 00425-3502, 00425-3503, 00425-3702, 00425-3703, 00425-3712, 00425-3713, 00425-3722, 00425-3723, 00425-3724, 00425-3732, 00425-3733, 00425-3742, 00425-3743, 00425-3752, 00425-3753, 00425-3762, 00425-3763, 00425-3772, 00425-3773, 00425-3782, 00425-3783, 00425-3792, 00425-3793, 00425-3802, 00425-3803, 00425-3812, 00425-3813, 00425-3822, 00425-3823, 00425-3832, 00425-3833, 00425-3902, 00425-3903, 00425-3922, 00425-3923, 00425-3932, 00425-3933, 00425-3942, 00425-3943, 00425-4002, 00425-4003, 00425-4004, 00425-4012, 00425-4013, 00425-4032, 00425-4033, 00425-4042, 00425-4043, 00425-4052, 00425-4053, 00425-4062, 00425-4063, 00425-4072, 00425-4073, 00425-4122, 00425-4123, 00425-4132, 00425-4133, 00425-4142, 00425-4143, 00425-4162, 00425-4163, 00425-4182, 00425-4183, 00425-4202, 00425-4203, 00425-4272, 00425-4273, 00425-4302, 00425-4303, 00425-4382, 00425-4383, 00425-4392, 00425-4393, 00425-4532, 00425-4533, 00425-4552, 00425-4553, 00425-4642, 00425-4643, 00425-4672, 00425-4673, 00425-4712, 00425-4713, 00425-4812, 00425-4813, 00425-4832, 00425-4833, 00425-4872, 00425-4873, 00425-4902, 00425-4903, 00425-4912, 00425-4913, 00425-4922, 00425-4923, 00425-4932, 00425-4933, 00425-5002, 00425-5003, 00425-5004, 00425-5012, 00425-5013, 00425-5042, 00425-5043, 00425-5112, 00425-5113, 00425-5152, 00425-5153, 00425-5161, 00425-5162, 00425-5163, 00425-5172, 00425-5173, 00425-5182, 00425-5183, 00425-5192, 00425-5193, 00425-5202, 00425-5203, 00425-5222, 00425-5223, 00425-5232, 00425-5233, 00425-5252, 00425-5253, 00425-5302, 00425-5303, 00425-5372, 00425-5373, 00425-5382, 00425-5383, 00425-5392, 00425-5393, 00425-5452, 00425-5453, 00425-5652, 00425-5653, 00425-5812, 00425-5813, 00425-5862, 00425-5863, 00425-5892, 00425-5893, 00425-5912, 00425-5913, 00425-5922, 00425-5923, 00425-6502, 00425-6522, 00425-6523, 00425-6532, 00425-6533, 00425-6582, 00425-6583, 00425-6584, 00425-6632, 00425-6633, 00425-6681, 00425-6682, 00425-6683, 00425-6702, 00425-6703, 00425-6912, 00425-6913, 00425-7002, 00425-7003, 00425-7004, 00425-7012, 00425-7013, 00425-7022, 00425-7023, 00425-7052, 00425-7053, 00425-7072, 00425-7073, 00425-7082, 00425-7083, 00425-7092, 00425-7093, 00425-7102, 00425-7103, 00425-7112, 00425-7113, 00425-7122, 00425-7123, 00425-7132, 00425-7133, 00425-7162, 00425-7163, 00425-7172, 00425-7173, 00425-7192, 00425-7193, 00425-7212, 00425-7213, 00425-7222, 00425-7223, 00425-7332, 00425-7333, 00425-7542, 00425-7543, 00425-7552, 00425-7553, 00425-7582, 00425-7583, 00425-7622, 00425-7623, 00425-7662, 00425-7663, 00425-7682, 00425-7683, 00425-7903, 00425-7912, 00425-7913, 00425-7914, 00425-7915, 00425-7932, 00425-7933, 00425-7952, 00425-7953, 00425-8021, 00425-8031, 00425-8042, 00425-8043, 00425-8052, 00425-8053, 00425-8060, 00425-8061, 00425-8062, 00425-8063, 00425-8072, 00425-8073, 00425-8082, 00425-8083, 00425-8312, 00425-8313, 00425-8482, 00425-8483, 00425-8534, 00425-8902, 00425-8903, 00425-8912, 00425-8913, 00425-8922, 00425-9002, 00425-9003, 00425-9032, 00425-9033, 00425-9302, 00425-9303

HOC 4/4

Cinnabar Green Light	-		Permanent Yellow Deep	-	
Cobalt Blue	Co	AP	Permanent Yellow Lemon	-	
Cobalt Blue Deep	Co	AP	Permanent Yellow Light	-	
Cobalt Blue Hue	-		Permanent Yellow Pale	-	
Cobalt Blue Pale	Co	AP	Perylene Red	-	
Cobalt Green	Co	CL	Pink Madder	-	
Cobalt Green Deep	Co	CL	Prussian Blue	-	
Cobalt Green Pale	Co	CL	Prussian Green	-	
Cobalt Turquoise	Co	AP	Raw Sienna	-	
Cobalt Violet	Co	CL	Raw Umber	-	
Cobalt Violet Deep	Co	CL	Rose Dore	-	
Cobalt Violet Light	Co	AP	Rose Grey	-	
Cobalt Violet Light Hue	-		Rose Madder	-	
Compose Blue	-		Rose Violet	-	
Compose Green	Cd	AP	Rose Violet Transparent	-	
Coral Red	Se-Cd	AP	Sap Green	-	
Crimson Lake	-		Scarlet Lake	-	
Davy's Grey	-		Sepia	-	
Emerald Green Nova	-		Shell Pink	-	
French Vermilion	Hg	AP	Silver	Solv.	CL
Geranium Lake	-		Terra Rosa	-	
Gold	Solv	CL	Terre Verte	-	
Gold Ochre	-		Terre Verte Verona	-	
Green Grey	-		Turquoise Blue	Co	AP
Greenish Yellow	-		Ultramarine Blue	-	
Grey of Grey	Co	AP	Ultramarine Deep	-	
Horizon Blue	-		Ultramarine Light	-	
Hydrangea Blue	-		Vandyke Brown	-	
Indian Red	-		Verditer Blue	Co	AP
Indian Yellow	-		Vermilion	Hg	AP
Indigo	-		Vermilion Hue	-	
Ivory Black	-		Violet Grey	-	
Ivory White	-		Viridian	-	
Jaune Brillant No. 1	Se-Cd	AP	Viridian Hue	-	
Jaune Brillant No. 2	Se-Cd	AP	Yellow Grey	-	
Jaune Brillant No. 3	Se-Cd	AP	Yellow Ochre	-	
Jaune Brillant No. 4	Se-Cd	AP	Yellow Ochre Natural	-	
Lamp Black	-		Yellow Ochre Pale Natural	-	
Lemon Yellow	-				
Lemon Yellow Pale	Cd	AP	TRANSPARENT Colors	-	
Light Magenta	-		Transparent Black	-	
Light Red	-		Transparent Blue	-	
Light Red Bright	-		Transparent Brown	-	
Manganese Blue Nova	Co	AP	Transparent Garnet	-	
Mars Orange	-		Transparent Green	-	
Mars Violet	-		Transparent Lemon	-	
Mars Yellow	-		Transparent Red	-	
Mauve	-		Transparent Rose	-	
Mineral Violet	-		Transparent Vermilion	-	
Misty Blue	-		Transparent Violet	-	
Monochrome Tint Cool	-		Transparent Yellow	-	
Monochrome Tint Warm	-				
Naples Yellow	Cd	AP	FOUNDATIONS	-	
Naples Yellow French	-		Foundation Greenish	Pb	CL
Naples Yellow Italian	Cd	AP	Foundation Grey	Pb	CL
Navy Blue	-		Foundation Umber	Pb	CL
Neutral Grey	-		Foundation White	Pb	CL
Nickel Yellow	-				
Olive Green	-		WHITES	-	
Oriental Blue	-		Ceramic White	-	
Oriental Green	-		Neo-Zinc White	-	
Oxide of Chromium	-		Permanent White EX	-	
Paynes Grey	-		Permanent White SF	-	
Peach Black	Cu	AP	Quick Drying White	-	
Peony Red	-		Silver White	Pb	CL
Permanent Green	-		Titanium White	-	
Permanent Green Deep	-				
Permanent Green Light	-				
Permanent Green Pale	-				
Permanent Orange	-				
Permanent Violet	-				
Permanent Yellow	-				