



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

§ 1 - IDENTITY INFORMATION

Product Name (as used on label and list) : **Holbein Artists' Oil Color (HOC)**

Manufacturer : **HOLBEIN Works, Ltd.**
 Address : **2-2-5, Ueshio, Chuo-ku, Osaka-shi,
 OSAKA 542-0064 JAPAN**

Telephone Number for information : **81-6-6191-7722**
 Emergency Telephone Number : **81-72-985-1221**
 Date Prepared : **2015-6-17**
 Preparer : **ALAKI, Yutaka**

§ 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

§ 3 - COMPOSITION / INGREDIENTS

Substance/Mixture : Mixture of some ingredients

Components (Specific Chemical Identity, Common Name)

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

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

§ 5 - FIRE AND EXPLOSION HAZARD DATA

- Flammability : Not nonflammable (vegetable oil)
- Flash Point : 306 °C (As Linseed Oil. Not examined about products)
- Extinguishing Media : Water mist, Foam, Dry powder, CO₂
- Unusual Fire and Explosion Hazards : Oil dries by oxygen. Rags or waste soaked with oil may spontaneously catch fire if improperly discarded.
Not exclusive.

§ 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).

§ 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.

§ 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

None (No data on products)

§ 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

- Appearance : Colored paste with heavy consistency
- Volatile : None
- Odor : as vegetable oil
- Specific Gravity (H₂O = 1) : 1.1 ~ 3.5 (av. : 1.78)
- Boiling Point : N/A
- pH : N/A
- Solubility in Water : Insoluble. Soluble in organic solvent

§ 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).

§ 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, swallowing
 Oral Toxicity (LC50) : 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 keratitis.

Carcinogenicity : Cadmium and Cobalt pigments are listed as carcinogen. No data available on products.

Sensitization : Not expected

Mutagenicity : N/A

Teratogenicity : None known

§ 12 - ECOLOGICAL INFORMATION

No suitable information

§ 13 - 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 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.

§ 14 - TRANSPORT INFORMATION

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

UN Class : N/A
 UN Number : N/A

§ 15 - REGULATORY INFORMATION

Danger Class : N/A
 Industrial Safety and Health Law : N/A
 Fire Service Law : Dangerous Materials Group 4
 High Pressure Gas Safety Law : N/A

Ready to be conformed to ACMI, Art & Creative Materials Institute, under ASTM D 4236.

§ 16 - OTHER INFORMATION

Notice: All information contained herein is for references and guidance for normal use, and not for all conceivable conditions of handling and use. The responsibility for irregular use belongs to user individuals. All information are under our knowledge of today, and not secure the perfection. All information may change according to circumstances.

Appendix

Table COLOR INFORMATION

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

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