



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	Holbein Artists' Oil Color (HOC)
Manufacturer	HOLBEIN Works, Ltd.
Address	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) ** : SiO₂

Vegetable Oil *, *** : CH₂—OCOR
(Binder)

|
CH—OCOR

CAS No. 8001-26-1
or others

|
CH₂—OCOR

Metallic Soap (Drier)**** : ex; (RCOO)₂Co

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

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, 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.

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 (H₂O = 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 (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

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 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
AP	Approved Product : Contain no materials in sufficient quantities to be toxic or injurious to humans.		Cadmium Orange	Se-Cd	AP
			Cadium Orange Red Shade	Se-Cd	AP
			Cadium Orange Yellow Shade	Se-Cd	AP
			Cadmium Red	Se-Cd	AP/CL
CL	Cautionary Label : Any known health risks and with information on the safe and proper use of these materials		Cadmium Red Deep	Se-Cd	AP
			Cadmium Red Light	Se-Cd	CL
			Cadmium Red Purple	Se-Cd	CL
AP/CL	AP on small tube (20ml), CL on large tube (40ml)		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
			Carmin	-	
Alizarin Crimson	-		Cerulean Blue Red Shade	Co	AP
Alps Red	-		Cerulean Blue	Co	AP
Aureolin	Co	CL	Cerulean Blue Hue	-	
Baryte Green	-		Charcoal Grey	-	
Blue Black	-		Chinese Red	-	
Blue Grey	-		Chinese Vermilion	Hg	AP
Bright Red	-		Cinnabar Green	-	
Brilliant Pink	-				

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	-						