



SAFETY DATA SHEET

May be used to comply with U.S. Department of Labor
 OSHA's Hazard Communication Standard, Occupational Safety and Health Administration
 29 CFR 1910.1200. (Non-Mandatory Form)
 Standard must be 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 : **2016-6-30**
 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. § 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 polymerized 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, notplied.

§ 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

pearance : 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 : Produces 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 incinerated 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

| | | Name | Marked ingredient | Classification |
|-------|--|-------------------------|-------------------|----------------|
| Cd | Cadmium | | | |
| Co | Cobalt | Chinese Vermilion * | Hg | AP |
| Cu | Copper | Cinnabar Green | - | AP |
| Hg | Mercury | Cinnabar Green Light | - | AP |
| Pb | Lead | Cobalt Blue | Co | AP |
| Se-Cd | Selenium-Cadmium | Cobalt Blue Deep | Co | AP |
| Solv. | Petroleum distillates | Cobalt Blue Hue | - | AP |
| | | Cobalt Blue Pale | Co | AP |
| | | Cobalt Green | Co | CL |
| AP | Approved Product : Contain no materials in sufficient quantities to be toxic or injurious to humans. | Cobalt Green Deep | Co | CL |
| | | Cobalt Green Pale * | Co | CL |
| | | Cobalt Turquoise | Co | AP |
| | | Cobalt Turquoise Deep | Co | CL |
| CL | Cautionary Label : Any known health risks and with information on the safe and proper use of these materials | Cobalt Violet | Co | CL |
| | | Cobalt Violet Deep | Co | CL |
| | | Cobalt Violet Light | Co | AP |
| | | Cobalt Violet Light Hue | - | AP |
| AP/CL | AP on small tube (20ml), CL on large tube (40ml) | Compose Blue | - | AP |
| | | Compose Green | Cd | AP |
| | | Coral Red | Se-Cd | AP |
| | | Crimson Lake | - | AP |
| | | Davy's Grey | - | AP |
| | | Dioxazine Violet | - | AP |
| | | Emerald Green Nova | - | AP |
| | | French Vermilion * | Hg | AP |
| | | Geranium Lake * | - | AP |
| | | Gold | Solv | CL |
| | | Gold Ochre | - | AP |
| | | Green Grey | - | AP |
| | | Greenish Yellow | - | AP |
| | | Grey of Grey | Co | AP |
| | | Horizon Blue | - | AP |
| | | Hydrangea Blue * | - | AP |
| | | Imidazolone Brown | - | AP |
| | | Imidazolone Yellow | - | AP |
| | | Indanthrene Blue | - | AP |
| | | Indian Red | - | AP |
| | | Indian Yellow * | - | AP |
| | | Indigo | - | AP |
| | | Isoindolinone Yellow | - | AP |
| | | Ivory Black | - | AP |
| | | Ivory White | - | AP |
| | | Jaune Brillant No. 1 | Se-Cd | AP |
| | | Jaune Brillant No. 2 | Se-Cd | AP |
| | | Jaune Brillant No. 3 | Se-Cd | AP |
| | | Jaune Brillant No. 4 | Se-Cd | AP |
| | | Lamp Black | - | AP |
| | | Lemon Yellow | - | AP |
| | | Lemon Yellow Pale * | Cd | AP |
| | | Light Magenta | - | AP |
| | | Light Red | - | AP |
| | | Light Red Bright * | - | AP |
| | | Manganese Blue Nova | Co | AP |
| | | Mars Orange | - | AP |
| | | Mars Violet | - | AP |
| | | Mars Yellow | - | AP |
| | | Mauve | - | AP |
| | | Mineral Violet | - | AP |
| | | Misty Blue | - | AP |
| | | Monochrome Tint Cool | - | AP |

| Name | Marked ingredient | Classification | Name | Marked ingredient | Classification |
|----------------------------|-------------------|----------------|---------------------------|-------------------|----------------|
| Monochrome Tint Warm | - | AP | Terra Rosa | - | AP |
| Naples Yellow | Cd | AP | Terre Verte | - | AP |
| Naples Yellow French * | - | AP | Terre Verte Opaque | - | AP |
| Naples Yellow Italian | Cd | AP | Terre Verte Verona ** | - | AP |
| Navy Blue * | - | AP | Transparent Brown Oxide | - | AP |
| Neutral Grey | - | AP | Transparent Gold Oxide | - | AP |
| Nickel Azo Yellow | - | AP | Transparent Red Oxide | - | AP |
| Nickel Yellow * | - | AP | Turquoise Blue | Co | AP |
| Olive Green | - | AP | Ultramarine Blue | - | AP |
| Oriental Blue * | - | AP | Ultramarine Deep | - | AP |
| Oriental Green * | - | AP | Ultramarine Light | - | AP |
| Oxide of Chromium | - | AP | Vandyke Brown | - | AP |
| Payne's Grey | - | AP | Verditer Blue | Co | AP |
| Peach Black | Cu | CL | Vermilion | Hg | AP |
| Peony Red * | - | AP | Vermilion Hue | - | AP |
| Permanent Green | - | AP | Violet Grey | - | AP |
| Permanent Green Deep | - | AP | Viridian | - | AP |
| Permanent Green Light | - | AP | Viridian Hue | - | AP |
| Permanent Green Pale | - | AP | Yellow Grey | - | AP |
| Permanent Orange | - | AP | Yellow Ochre | - | AP |
| Permanent Violet * | - | AP | Yellow Ochre Natural * | - | AP |
| Permanent Yellow | - | AP | Yellow Ochre Pale Natural | - | AP |
| Permanent Yellow Deep | - | AP | | | |
| Permanent Yellow Lemon | - | AP | TRANSPARENT COLORS | | |
| Permanent Yellow Light | - | AP | Transparent Black | - | AP |
| Permanent Yellow Pale * | - | AP | Transparent Blue | - | AP |
| Perylene Green | - | AP | Transparent Brown | - | AP |
| Perylene Red | - | AP | Transparent Garnet | - | AP |
| Phthalo Blue | - | AP | Transparent Green | - | AP |
| Phthalo Blue Red Shade | - | AP | Transparent Lemon | - | AP |
| Phthalo Green | - | AP | Transparent Red | - | AP |
| Phthalo Green Yellow Shade | - | AP | Transparent Rose | - | AP |
| Phthalo Turquoise | - | AP | Transparent Vermilion | - | AP |
| Pink Madder | - | AP | Transparent Violet | - | AP |
| Polyazo Yellow | - | AP | Transparent Yellow | - | AP |
| Prussian Blue | - | AP | | | |
| Prussian Green * | - | AP | FOUNDATIONS | | |
| Pyrrole Orange | - | AP | Foundation Greenish | Pb | CL |
| Pyrrole Orange Transparent | - | AP | Foundation Grey | Pb | CL |
| Pyrrole Red | - | AP | Foundation Umber | Pb | CL |
| Pyrrole Red Transparent | - | AP | Foundation White | Pb | CL |
| Pyrrole Rubin Transparent | - | AP | | | |
| Quinacridone Magenta | - | AP | WHITES | | |
| Quinacridone Opera | - | AP | Ceramic White | - | AP |
| Quinacridone Red | - | AP | Permanent White EX | - | AP |
| Quinacridone Violet | - | AP | Permanent White SF | - | AP |
| Quinophthalone Yellow | - | AP | Quick Drying White | Solv. | CL |
| Raw Sienna | - | AP | Silver White | Pb | CL |
| Raw Umber | - | AP | Titanium White | - | AP |
| Rose Dore * | - | AP | Zinc White | - | AP |
| Rose Grey | - | AP | | | |
| Rose Madder | - | AP | ANTIQUUE COLORS | | |
| Rose Violet | - | AP | Antique Blue #1 | - | AP |
| Rose Violet Transparent * | - | AP | Antique Blue #2 | - | AP |
| Sap Green | - | AP | Antique Green | - | AP |
| Scarlet Lake * | - | AP | Antique Red | - | AP |
| Sepia | - | AP | Antique Yellow #1 | - | AP |
| Shell Pink | - | AP | Antique Yellow #2 | - | AP |
| Silver | Solv. | CL | | | |

* Indicated colors are discontinued (out of production)