



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 Water Soluble Oil Color DUO (Aqua Oil)

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 : 2015-6-5

Preparer : ALAKI, Yutaka

§ 2 - HAZARD IDENTIFICATION

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

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.
(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

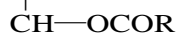
§ 3 - COMPOSITION / INGREDIENTS

Substance/Mixture : Mixture of some ingredients

Components (Specific Chemical Identity, Common Name)

Colorant (Pigment) * : shown on table of catalog

Binder (Vegetable Oil) ** : CH₂—OCOR



CAS No. 8001-26-1
or others

Modeling agent (Silicone Dioxide) *** SiO₂ CAS No. 7631-86-9

Drier (Metallic Soap) **** ex; (RCOO)₂Co CAS No. 61789-51-3

Surface Activator (Polyoxyethylene Alkyl Ether) 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.

§ 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.
 If you feel unwell, seek medical advice.
 Skin Contact : Wash with mild soap and water.
 Inhalation : N/A

§ 5 - FIRE AND EXPLOSION HAZARD DATA

- Flammability : Not nonflammable (vegetable oil)
 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
 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

Wipe out.

§ 7 - HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing :
 Avoid prolonged or repeated contact with skin and eyes.

§ 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Especially 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) : 1.3~2.3 (Av.1.82)
 Boiling Point : N/A
 pH : N/A
 Solubility in Water : Soluble (dispersible)

§ 10 - HAZARD INFORMATION AND STABILITY

- 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

§ 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, swallowing
Oral Toxicity (LC50) : Differs by each colors.
Even if hazardous, doesn't practically act acutely.

The harmful pigments are noted on catalog as follows ;

Cadmium group : 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..
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

§ 12 - ECOLOGICAL INFORMATION

No suitable information

§ 13 - 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.

§ 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	Hazardous ingredient	Classification	Name	Hazardous ingredient	Classification
Alizarin Crimson	-	AP	Luminous Violet	-	AP
Anthraquinone Red	-	AP	Manganese Blue Nova	Co	AP
Aureolin Hue	-	AP	Mauve	-	AP
Benzidine Yellow	-	AP	Mineral Violet	-	AP
Brilliant Pink	-	AP	Naphthol Red	-	AP
Brown Pink	-	AP	Naples Yellow	Se-Cd	AP
Burnt Sienna	-	AP	Naples Yellow Light	-	AP
Burnt Umber	-	AP	Navy Blue	-	AP
Cadmium Green	Cd	AP	Olive Green	-	AP
Cadmium Green Deep Hue	-	AP	Payne's Grey	-	AP
Cadmium Green Hue	-	AP	Permanent White	-	AP
Cadmium Green Light	Cd	AP	Phthalo Blue	-	AP
Cadmium Green Light Hue	-	AP	Phthalo Green	-	AP
Cadmium Orange	Se-Cd	AP	Phthalo Green Yellow Shade	-	AP
Cadmium Red	Se-Cd	AP	Prussian Blue	-	AP
Cadmium Red Deep	Se-Cd	AP	Prussian Green	-	AP
Cadmium Red Deep Hue	-	AP	Quinacridone Gold	-	AP
Cadmium Red Hue	-	AP	Quinacridone Red	-	AP
Cadmium Red Purple Hue	-	AP	Quinacridone Scarlet	-	AP
Cadmium Yellow	Cd	AP	Quinacridone Violet	-	AP
Cadmium Yellow Deep	Se-Cd	AP	Raw Sienna	-	AP
Cadmium Yellow Deep Hue	-	AP	Raw Umber	-	AP
Cadmium Yellow Hue	-	AP	Rose Dore	-	AP
Cadmium Yellow Lemon	Cd	AP	Rose Madder	-	AP
Cadmium Yellow Light Hue	-	AP	Rose Violet	-	AP
Ceramic White	-	AP	Sap Green	-	AP
Cerulean Blue	Co	AP	Sepia	-	AP
Cerulean Blue Hue	-	AP	Shadow Green	-	AP
Cobalt Blue	Co	AP	Spinel Black	-	AP
Cobalt Blue Hue	-	AP	Terra Rosa	-	AP
Cobalt Green Deep	Co	CL	Terre Verte Hue	-	AP
Cobalt Green Light	Co	AP	Titanium White	-	AP
Cobalt Turquoise	Co	AP	Turquoise Blue	-	AP
Cobalt Violet	Co	AP	Ultramarine Deep	-	AP
Coral Red	-	AP	Ultramarine Light	-	AP
Dioxazine Violet	-	AP	Verditer Blue	Co	AP
Emerald Green Nova	-	AP	Vermilion Hue	-	AP
Greenish Yellow	-	AP	Viridian Hue	-	AP
Grey Of Grey	-	AP	Yellow Green	-	AP
Horizon Blue	-	AP	Yellow Ochre	-	AP
Ice Green	-	AP	Yellow Ochre Natural	-	AP
Imidazolone Brown	-	AP			
Imidazolone Orange	-	AP			
Imidazolone Yellow	-	AP	Cd	Cadmium	
Imidazolone Yellow Light	-	AP	Co	Cobalt	
Indanthrene Blue	-	AP	Se-Cd	Selenium-Cadmium	
Indian Yellow	-	AP			
Indigo	-	AP			
Ivory Black	-	AP			
Jaune Brillant	-	AP			
Lavender	-	AP			
Leaf Green	-	AP			
Lemon Yellow	-	AP			
Light Magenta	-	AP			
Lilac	-	AP			
Luminous Green	-	AP			
Luminous Lemon	-	AP			
Luminous Opera	-	AP			
Luminous Orange	-	AP			

AP (Approved Product) : Contain no materials in sufficient quantities to be toxic or injurious to humans.

CL (Cautionary Label) : Any known health risks and with information on the safe and proper use of these materials