



2020-8-8

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 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

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

|
 CH—OCOR CAS No. 8001-26-1
 |
 CH₂—OCOR or others

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

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

Surfactant CAS No. Registered

*: 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 off.

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

Cd Cadmium
Co Cobalt
Se-Cd Selenium-Cadmium

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