

# 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

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

> 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)

Category 3 (Long time or repeated contact may irritate to skin.) Skin Irritation:

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) \*\* :SiO2

> Vegetable Oil \*, \*\*\* : CH2—OCOR

> > (Binder)

CAS No. 8001-26-1 CH—OCOR or others

CH2—OCOR

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

\*: 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):  $1.1 \sim 3.5$  (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.

Except from Japanese Poisonous and Deleterious Silver White, Foundation group:

> 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.

Usually non irritant. Upon skin contact, wash with soap or Skin irritation:

other non-irritating cleansing agents.

None. Usually non irritant, but hurtable. When into eyes, Eye irritation:

may cause keratitis.

Cadmium and Cobalt pigments are listed as carcinogen. No Carcinogenicity:

data available on products.

Sensitization: Not expected

Mutagenicity: N/A

None known Teratogenicity:

## § 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

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

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 Gre	een Pale	Cd	AP
Cu	Cupper			Cadmium Ma		Se-Cd	CL
Hg	Mercury			Cadmium Ora	ange	Se-Cd	AP
Pb	Lead				ange Red Shade	Se-Cd	AP
	Selenium-Cadmium			Cadmium Orange Yellow Shade			Se-Cd AP
Se-Cd				Cadmium Red	d	Se-Cd	AP/CL
Solv.	Petroleum distillates		Cadmium Red	d Deep	Se-Cd	AP	
				Cadmium Red	d Light	Se-Cd	CL
AP Approved Product : Contain no			Cadmium Red	d Purple	Se-Cd	CL	
	materials in sufficient quantities to			Cadmium Yel	low	Se-Cd	AP
	be toxic or inju	_		Cadmium Yel	low Deep	Se-Cd	AP
CI				Cadmium Yel	low Lemon	Cd	AP/CL
CL	Cautionary Label: Any known			Cadmium Yel	low Light	Cd	AP
	health risks and	d with inf	formation on	Cadmium Yel	low Pale	Cd	AP/CL
	the safe and pr	oper use	of these	Carmine		-	AP
	materials	-		Cerulean Blue	e Red Shade	Co	AP
AP/CL	AP on small tube (20ml), CL on			Cerulean Blue		Co	AP
mice				Cerulean Blue	e Hue	-	AP
large tube (40ml)			Charcoal Gre	y	-	AP	
				Chinese Red		-	AP
Name	Hazardous in	igredient	Classification	Chinese Verm		Hg	AP
Alizarin (	Crimson	-	AP	Cinnabar Gre		-	AP
Alps Red		-	AP	Cinnabar Gre	en Light	-	AP
Aureolin		Co	$\operatorname{CL}$	Cobalt Blue		Co	AP
Baryte Gr	een	_	AP	Cobalt Blue I	-	Co	AP
Blue Blac		-	AP	Cobalt Blue F		-	AP
Blue Grey	/	-	AP	Cobalt Blue P		Co	AP
		AP	Cobalt Green		Co	CL	
Brilliant Pink -		-	AP	Cobalt Green		Co	CL
Brown Pink -		-	AP	Cobalt Green		Co	CL
Burnt Sienna -		-	AP	Cobalt Turque		Co	AP
Burnt Umber -		-	AP	Cobalt Violet		Co	CL
Cadmium Green Cd		Cd	AP	Cobalt Violet		Co	CL
Cadmium Green Deep Cd		AP	Cobalt Violet		Co	AP	
Cadmium Green Light Cd		AP	Cobalt Violet	Light Hue	-	AP	

Name Hazardous in	gredient	Classification	Name Hazardous ing	gredient	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	$\operatorname{CL}$	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.	$\operatorname{CL}$
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