



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 ARTISTS' WATER COLOR**
 (Pan Color, HPN)

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 : **2015-5-29**
 Preparer : **ALAKI, Yutaka**

§ 2 - HAZARD IDENTIFICATION

This product is water-based and not classified as dangerous for supply or conveyance.

Danger : Not flammable, yet not declare as nonflammable. Not
 explosive

GHS label elements : Void
 Classification : Non-regulated

Hazard information : Especially none (cf. 11 Toxicological Information)
 Skin Irritation : Category 3 (Long time or repeated contact may irritate to skin
 and may cause inflammation.)
 Eye Effects : Category 3 (When dropped into eyes, may be irritant
 physically to the eye mucous membrane and cause keratitis.)
 Ingestive Effects : May be aggregated by the gastric acid.

§ 3 - COMPOSITION / INGREDIENTS

Substance/Mixture:		Mixture of some ingredients	
Components (Specific Chemical Identity, Common Name)			CAS No.
Pigment	(Colorants)	see Catalogue	
Binder	(Gum Arabic)*	—	9000-01-5
Moisturizer	(Glycerin)	(CH ₂ OH) ₂ •CHOH	56-81-5
Preservative	(Benzisothiazol)	C ₇ H ₅ NOS	2634-33-5
Preservative	(2-(4-thiazolyl)-benzimidazole)	C ₁₀ H ₇ N ₃ S	148-79-8
Water *			7732-18-5

§ 4 - FIRST AID MEASURES

Inhalation : This product is not inhaled.
 Skin Contact : Wash with mild soap and water.

- Eyes : In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.
- Ingestion : In case of swallowing, drink plenty of water and induce vomiting. Seek medical attention and tell the name of pigment according to the necessity.
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§ 5 - FIRE AND EXPLOSION HAZARD DATA

- Flammability : Material will not support combustion.
- Flash Point, Auto-ignition Point : N/A
- Combustion Products : Formation of carbon oxide and oxide of metal according to pigment.
- Precaution for Firefighters : Especially none.
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§ 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. Especially none to be care of fire.
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§ 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering Controls : Especially none
- Personal Protection : Especially none
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§ 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

- Appearance : Rectangular colored block
- Odor : Own smell
- Specific Gravity (H₂O = 1) : 1.6~2.4 (Av. 2.1)
- Melting Point, Boiling Point : N/A
- Vapor Density, Vapor Pressure : N/A
- Solubility in Water : ∞
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§ 10 - HAZARD INFORMATION AND STABILITY

- Flammability : Not support combustion
- Stability : Stable under normal state
- Reactivity : None
- Incompatibility (Materials to Avoid) : None
- Hazardous Decomposition or Byproducts : None known. In a case of inorganic pigment, individual oxides may form.
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§ 11 - TOXICOLOGICAL INFORMATION

- Primary Routes of Entry : Eye contact, swallowing, ingestion
- Oral Toxicity (LD₅₀) : Depend on pigment. Not confirmed each. Even if hazardous, doesn't practically act acutely.

The harmful pigments are noted on catalog as follows ;

- Cadmium group, Jaune Brillant and Naples Yellow : Contains soluble Cadmium which may be harmful by ingestion. Long time ingestion may cause damage to the kidneys or testes or harm to the developing fetus.

Cobalt group and Cerulean Blue : Contains soluble Cobalt which may be harmful if swallowed. Long time ingestion may damage heart or lungs.

Information of individual is shown on the table "Color Information" of appendix.

Effects of inhalation : Since it doesn't be used in the spray technique, it may not be inhaled.

Effects of Acute or Chronic Exposure : None known

Summary Comments : May cause severe eye irritation like ocular lesions to some person.

Skin irritation : Long time or repeated contact may irritate to skin and may cause inflammation.

Carcinogenicity, Sensitization, Mutagenicity, Teratogenicity, Reproductive Toxicity: None known

§ 12 - ECOLOGICAL INFORMATION

Fish : No suitable information on product

Accumulation : Depend on pigment.

Soil : Effect of each ingredient is not confirmed. It only works as color stain

§ 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations : To be treated as one of the flammable materials, under the law, local rule or an appropriate government waste disposal facility.

§ 14 - TRANSPORT INFORMATION

UN Proper Shipping Name : Nonflammable

UN-number : N/A

Transport Hazard Class : N/A

Tariff code : 1301.20.0000 (Gum arabic)

Hazard Class : Non-regulated

UN Number : N/A

§ 15 - REGULATORY INFORMATION

The rule or law which is to be applied is especially none.

§ 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		Imidazolone Brown	AP
Co	Cobalt		Imidazolone Yellow	AP
Cu	Copper		Indian Red	AP
Se-Cd	Selenium-Cadmium		Indian Yellow	AP
			Ivory Black	AP
AP	Approved Product : Contain no materials in sufficient quantities to be toxic or injurious to humans.		Jaune Brillant	SeCd AP
			Leaf Green	AP
			Lemon Yellow	AP
CL	Cautionary Label : Any known health risks and with information on the safe and proper use of these materials		Marine Blue	AP
			Naphthol Red	AP
			Naples Yellow	Cd AP
			Olive Green	AP
			Opera	AP
			Payne's Grey	AP
			Peach Black	Cu AP
			Permanent Alizarin Crimson	AP
			Phthalo Blue	AP
			Prussian Blue	AP
			Pyrrol Red	AP
			Quinacridone Magenta	AP
			Raw Sienna	AP
			Raw Umber	AP
			Royal Blue	AP
			Sap Green	AP
			Sepia	AP
			Shadow Green	AP
			Ultramarine Deep	AP
			Ultramarine Light	AP
			Vermilion Hue	AP
			Viridian Hue	AP
			Yellow Ochre	AP
			Titanium White	AP

Name	Hazardous ingredient	Class		
Bamboo Green		AP		
Brilliant Orange		AP		
Burnt Sienna		AP		
Burnt Umber		AP		
Cadmium Green Pale	Cd	AP		
Cadmium Red Deep	Se-Cd	AP		
Cadmium Red Light	Se-Cd	AP		
Cadmium Yellow Deep	Cd	AP		
Cadmium Yellow Lemon	Cd	AP		
Carmin		AP		
Cerulean Blue	Co	AP		
Chinese White		AP		
Cobalt Blue Pale	Co	AP		
Cobalt Turquoise	Co	AP		
Cobalt Violet Light	Co	CL		
Dioxazine Violet		AP		
Emerald Green		AP		