

Company : HK Holbein  
 Product : HWC  
 Brand Name : Holbein Artists' Water Colors

00322-XXXX

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## Material Safety Data Sheet

DISTRIBUTOR: HK Holbein  
 P.O. Box 555  
 175 Commerce Street  
 Williston, Vermont 05495

INFORMATION TELEPHONE NUMBER: 800-682-6686  
 EMERGENCY TELEPHONE NUMBER: 802-862-4573

### Section I - PRODUCT IDENTIFICATION

PRODUCT NAME: HOLBEIN ARTISTS' WATER COLORS  
 PRODUCT NUMBER: HWC  
 PRODUCT SIZES: 15 ml, 20 ml (W 001 ONLY)  
 BRAND NAME: HOLBEIN ARTISTS' WATER COLORS  
 PRODUCT CLASS: WATER COLORS (Tube)

### Section II - HAZARDOUS INGREDIENTS

Ingredient	CAS #	PEL/TLV (MG/M#)	Max % Weight	NTP	IARC
CADMIUM	7440-43-9	0.01	0.53946	Y	Y
COBALT	7440-48-4	0.05	2.00000	Y	Y
COPPER	7440-50-8	1.00	0.36401	N	N

### Section III - PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point: Approx. 100°C  
 Melting Point: N/A  
 Vapor Pressure: N/A  
 Specific Vapor Density (Air=1): N/A  
 Specific Gravity: 1.10~1.95 (Av. 1.43)  
 Reactivity in Water: Non-Reactive  
 Solubility In Water: Can be diluted. Can be influenced after dried.  
 Appearance And Odor: Colored paste with unique odor

### Section IV - FIRE AND EXPLOSION INFORMATION

Flash Point: N/A  
 Autoignition Temperature: N/A  
 Explosion Limits in Air (% by Volume): Not Explosive  
 Extinguishing Media: No special media required  
 Fire Fighting Procedures: No special fire fighting procedures required  
 Unusual Fire & Explosion Hazards: Not combustible

### Section V - PHYSICAL HAZARDS/REACTIVITY

Hazardous Polymerization Products: None  
 Stability: Stable  
 Conditions to Avoid: None  
 Incompatibility (Materials to Avoid): None  
 Hazardous Decomposition Products: None

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### Section VI - HEALTH HAZARD DATA

Permissible Exposure Level: See Section II for component PEL/TLVs  
 Primary Routes of Entry: Inhalation, Ingestion, Eye, Skin

Effects And Symptoms of Acute Exposure: MAY BE HARMFUL IF SWALLOWED. MAY BE HARMFUL BY BREATHING DUSTS OR MISTS. EXPOSURE MAY RESULT IN SHORTNESS OF BREATH, CHEST PAIN, CHEST TIGHTNESS, WHEEZING AND A COUGH.

Effects And Symptoms of Chronic Exposure: INHALATION MAY CAUSE RESPIRATORY ALLERGIES. EXPOSURE MAY CAUSE DAMAGE TO THE KIDNEYS OR LIVER. INHALATION MAY CAUSE LUNG DAMAGE. EXPOSURE MAY CAUSE ITCHINESS OF THE SKIN WITH HIVES OR ECZEMA. EXPOSURE MAY RESULT IN FATIGUE. CHRONIC EXPOSURE MAY RESULT IN SHORTNESS OF BREATH, EASY FATIGABILITY AND CHEST PAIN.

Carcinogen Listing: NTP: YES  
 Larc: YES  
 OSHA: NO

See Section II for components affected

Medical Conditions Usually Aggravated by Over Exposure to This Product: Asthma. Chronic dermatitis. Chronic lung disease, Chronic bronchitis or Asthma. Liver disease. Kidney disease. Anemia. Pregnancy. Heart disease.

First aid measures: If swallowed, get prompt medical attention.

### Section VII - SPILL OR LEAK PROCEDURES

Precautions to Be Taken During Storage And Handling: KEEP OUT OF REACH OF CHILDREN  
 Steps to Be Taken in Case a Material Is Spilled: No special spill procedures required.  
 Waste Disposal Method: Dispose in accordance with federal, state and local regulations.

### Section VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES

Respiratory Protection And Special Ventilation Requirements: Use niosh-certified mask for dusts or mists.  
 Other Protective Equipment (Gloves, Goggles, etc): None required  
 Work/Hygiene Practices: Do not spray apply. avoid ingestion. wash hands immediately after use. when using do not eat, drink or smoke.

### Section IX - ADDITIONAL INFORMATION AND WARNINGS

This information sheet is for consumer use only.

Additional Information And Warnings:

WARNING: Do not spray apply — This product contains cadmium, a chemical known to the State of California to cause cancer by means of inhalation.

### Section X - COLOR INFORMATION

This MSDS applies to the following colors which are associated with hazardous and/or non-hazardous ingredients

Product Color	Hazardous Ingredient	Product Color	Hazardous Ingredient
W201 Chinese White	(None)	W206 Pyrrole Rubin	(None)
W203 Titanium White	(None)	W207 Pyrrole Red	(None)
W205 Quinacridone Red	(None)	W208 Perylene Maroon	(None)

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Product Color	Hazardous Ingredient	Product Color	Hazardous Ingredient		
W209	Permanent Alizarin Crimson	(None)	W277	Leaf Green	(None)
W210	Crimson Lake	(None)	W278	Bamboo Green	(None)
W211	Carmine/Alizarin Crimson	(None)	W279	Shadow Green	(None)
W212	Rose Madder	(None)	W290	Cobalt Blue	(None)
W213	Opera	(None)	W291	Cobalt Blue Hue	(None)
W214	Cadmium Red Light	(None)	W292	Cerulean Blue	(None)
W215	Cadmium Red Deep	(None)	W293	Ultramarine Light	(None)
W216	Cadmium Red Orange	(None)	W294	Ultramarine Deep	(None)
W217	Cadmium Red Purple	(None)	W295	Verditer Blue	(None)
W218	Vermilion	Cadmium	W296	Compose Blue	(None)
W219	Vermilion Hue	(None)	W297	Prussian Blue	(None)
W220	Permanent Rose	(None)	W298	Indigo	(None)
W221	Permanent Red	(None)	W299	Turquoise Blue	(None)
W222	Scarlet Lake	(None)	W301	Peacock Blue	(None)
W223	Brown Madder	(None)	W302	Marine Blue	(None)
W224	Cherry Red	(None)	W303	Royal Blue	(None)
W225	Brilliant Pink	(None)	W304	Horizon Blue	(None)
W226	Shell Pink	(None)	W305	Manganese Blue Nova	(None)
W230	Naples Yellow	(None)	W306	Cobalt Turquoise Light	(None)
W231	Jaune Brilliant #1	(None)	W307	Phthalo Blue Yellow Shade	(None)
W232	Jaune Brilliant #2	(None)	W307	Phthalo Blue Red Shade	(None)
W233	Lemon Yellow	(None)	W310	Cobalt Violet Light	Cobalt
W234	Yellow Ochre	(None)	W312	Mineral Violet	(None)
W235	Permanent Yellow Lemon	(None)	W313	Mars Violet	(None)
W236	Permanent Yellow Light	(None)	W315	Permanent Violet	(None)
W237	Permanent Yellow Deep	(None)	W316	Lavender	(None)
W238	Permanent Yellow Orange	(None)	W317	Lilac	(None)
W239	Aureolin	(None)	W319	Quinacridone Magenta	(None)
W240	Cadmium Yellow Lemon	(None)	W320	Quinacridone Violet	(None)
W241	Cadmium Yellow Pale	(None)	W328	Mars Yellow	(None)
W242	Cadmium Yellow Light	(None)	W329	Umber	(None)
W243	Cadmium Yellow Deep	(None)	W330	Light Red	(None)
W244	Cadmium Yellow Orange	(None)	W331	Raw Umber	(None)
W245	Indian Yellow	(None)	W332	Raw Sienna	(None)
W246	Greenish Yellow	(None)	W333	Burnt Umber	(None)
W247	Brilliant Orange	(None)	W334	Burnt Sienna	(None)
W248	Gamboge Nova	(None)	W335	Indian Red	(None)
W249	Isoindolinone Yellow Deep	(None)	W336	Sepia	(None)
W250	Imidazolone Yellow	(None)	W337	Peach Black	Copper
W251	Imidazolone Lemon	(None)	W338	Ivory Black	(None)
W260	Viridian	(None)	W339	Vandyke Brown	(None)
W261	Viridian Hue	(None)	W340	Lamp Black	(None)
W262	Hooker'S Green	(None)	W341	Imidazolone Brown	(None)
W263	Cobalt Green	(None)	W342	Quinacridone Gold	(None)
W264	Emerald Green	(None)	W350	Blue Grey	(None)
W265	Terre Verte	(None)	W351	Yellow Grey	(None)
W266	Permanent Green #1	(None)	W352	Green Grey	(None)
W267	Permanent Green #2	(None)	W353	Grey of Grey	(None)
W268	Permanent Green #3	(None)	W354	Violet Grey	(None)
W269	Cadmium Green Pale	(None)	W355	Davy'S Grey	(None)
W270	Cadmium Green Dee	(None)	W356	Paynes Grey	(None)
W271	Compose Green	(None)	W357	Neutral Tint	(None)
W272	Compose Green #2	(None)	W370	Bright Rose	(None)
W273	Compose Green #3	(None)	W375	Bright Violet	(None)
W274	Olive Green	(None)	W390	Gold	(None)
W275	Sap Green	(None)	W391	Silver	(None)
W276	Cobalt Green Yellow Shade	(None)			

Completed by ALAKI, Yutaka, conformed to the form by Woodhall Stopford, MD, MSPH.  
 Last Updated: 30/05/2012

Item Numbers: 00322-0129, 00322-0189, 00322-0249, 00322-1009, 00322-1012, 00322-1052, 00322-2022, 00322-2222, 00322-2252, 00322-2552, 00322-2562, 00322-2612, 00322-2622, 00322-2632, 00322-3012, 00322-3069, 00322-3092, 00322-3152, 00322-3202, 00322-3252, 00322-3262, 00322-3282, 00322-3392, 00322-3412, 00322-3452, 00322-3492, 00322-3502, 00322-3711, 00322-3712, 00322-3722, 00322-3732, 00322-3742, 00322-3752, 00322-3762, 00322-3772, 00322-3782, 00322-3912, 00322-3922, 00322-4042, 00322-4062, 00322-4072, 00322-4122, 00322-4142, 00322-4162, 00322-4182, 00322-4272, 00322-4302, 00322-4382, 00322-4392, 00322-4592, 00322-4642, 00322-4652, 00322-4872, 00322-4911, 00322-4912, 00322-4922, 00322-5052, 00322-5112, 00322-5162, 00322-5182, 00322-5192, 00322-5202, 00322-5212, 00322-5222, 00322-5252, 00322-5302, 00322-5452, 00322-5552, 00322-5652, 00322-5812, 00322-5862, 00322-5912, 00322-5922, 00322-6032, 00322-6042, 00322-6531, 00322-6582, 00322-6632, 00322-6682, 00322-6702, 00322-6912, 00322-7052, 00322-7072, 00322-7092, 00322-7102, 00322-7122, 00322-7132, 00322-7152, 00322-7162, 00322-7622, 00322-7682, 00322-7892, 00322-7902, 00322-7912, 00322-7922, 00322-7932, 00322-7942, 00322-7952, 00322-7962, 00322-7972, 00322-7982, 00322-7992, 00322-8002, 00322-8042, 00322-8052, 00322-8062, 00322-8072, 00322-8082, 00322-8212, 00322-8312, 00322-8532, 00322-9002, 00322-9302, 00322-3242, 00322-3272, 00322-3342, 00322-3622, 00322-3792, 00322-3802, 00322-4082, 00322-4092, 00322-4322, 00322-5932, 00322-5942, 00322-6512, 00322-8092, 00322-9092