

00494-all colors except:
-0002 -0005

MATERIAL SAFETY DATA SHEET

6/15/2011

MANUFACTURER OR DISTRIBUTOR: **Holbein, Osaka**
P.O. Box 555
175 Commerce Street
Williston, Vermont 05495

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

June 14, 2011

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **HOLBEIN DUO OIL COLORS** PRODUCT NUMBER: **DUO**

PRODUCT SIZES: **20, 40 ML, (50 ML & 110 ML FOR WHITES)** BRAND NAME: **HOLBEIN DUO OIL COLORS**

PRODUCT CLASS: **OIL PAINT**

SECTION II - HAZARDOUS INGREDIENTS

Ingredient	CAS #	PEL/TLV (MG/M#)	Max % Weight	NTP	IARC
COBALT	7440-48-4	0.05	2.02500	Y	Y

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: *N/A* MELTING POINT: *N/A*

VAPOR PRESSURE: *N/A*

SPECIFIC VAPOR DENSITY (AIR=1): *N/A* SPECIFIC GRAVITY: *N/A*

SOLUBILITY IN WATER: *N/A* REACTIVITY IN WATER: *NON-REACTIVE*

APPEARANCE AND ODOR:

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT (METHOD): *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*

SECTION VI - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: *SEE SECTION II FOR COMPONENT PEL/TLVs*

PRIMARY ROUTES OF ENTRY: *INHALATION, INGESTION, EYE, SKIN*

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Item Numbers: 00494-0009, 00494-0119, 00494-0139, 00494-0169, 00494-1014, 00494-1015, 00494-1024, 00494-1025, 00494-1103, 00494-1209, 00494-1394, 00494-1395, 00494-2043, 00494-2253, 00494-2343, 00494-2503, 00494-2563, 00494-3003, 00494-3013, 00494-3023, 00494-3043, 00494-3053, 00494-3063, 00494-3083, 00494-3093, 00494-3173, 00494-3203, 00494-3273, 00494-3333, 00494-3393, 00494-3603, 00494-3713, 00494-3723, 00494-3743, 00494-3753, 00494-3763, 00494-3773, 00494-3903, 00494-4003, 00494-4013, 00494-4023, 00494-4043, 00494-4063, 00494-4083, 00494-4123, 00494-4143, 00494-4183, 00494-4193, 00494-4203, 00494-4273, 00494-4323, 00494-4453, 00494-4503, 00494-4513, 00494-4533, 00494-4543, 00494-4593, 00494-4743, 00494-4753, 00494-4773, 00494-4793, 00494-4903, 00494-4913, 00494-4923, 00494-5003, 00494-5043, 00494-5073, 00494-5103, 00494-5113, 00494-5163, 00494-5173, 00494-5183, 00494-5193, 00494-5203, 00494-5213, 00494-5223, 00494-5233, 00494-5253, 00494-5343, 00494-5373, 00494-5393, 00494-5453, 00494-5553, 00494-5653, 00494-5803, 00494-6033, 00494-6043, 00494-6063, 00494-6073, 00494-6513, 00494-6523, 00494-6683, 00494-6703, 00494-6903, 00494-6913, 00494-7003, 00494-7013, 00494-7023, 00494-7033, 00494-7043, 00494-7053, 00494-7063, 00494-7073, 00494-7093, 00494-7153, 00494-7163, 00494-7213, 00494-7223, 00494-7513, 00494-7563, 00494-7583, 00494-7663, 00494-7803, 00494-7903, 00494-7913, 00494-7923, 00494-7933, 00494-8003, 00494-8043, 00494-8053, 00494-8063, 00494-8073, 00494-8083, 00494-8343, 00494-8903, 00494-8913, 00494-8923, 00494-8933, 00494-9000, 00494-9093, 00494-1010, 00494-1012, 00494-1020, 00494-2010, 00494-2012

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EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: MAY BE HARMFUL IF SWALLOWED.

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: INHALATION MAY CAUSE RESPIRATORY ALLERGIES.
 SKIN CONTACT MAY CAUSE ALLERGIC SKIN RASHES. INHALATION MAY CAUSE LUNG DAMAGE. EXPOSURE MAY CAUSE ITCHINESS OF THE SKIN WITH HIVES OR ECZEMA. CHRONIC EXPOSURE MAY RESULT IN SHORTNESS OF BREATH, EASY FATIGABILITY AND CHEST PAIN.

CARCINOGEN LISTING: NTP: YES IARC: YES OSHA: NO

SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: CHRONIC DERMATITIS. 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: NONE REQUIRED

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED

WORK/HYGIENE PRACTICES: Avoid prolonged contact with skin. Do not spray apply. Wash hands immediately after use.

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

<u>Product Color</u>	<u>Hazardous Ingredient</u>
DU001/201 ALIZARIN CRIMSON	(none)
DU002/202 ROSE MADDER	(none)

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<u>Product Color</u>	<u>Hazardous Ingredient</u>
DU003/203 ROSE DORE	(none)
DU004/204 SCARLET	(none)
DU005/205 CADMIUM RED HUE	(none)
DU006/206 CADMIUM RED DEEP HUE	(none)
DU007/207 CADMIUM RED PURPLE HUE	(none)
DU008/208 VERMILION HUE	(none)
DU009/209 ANTHRAQUINONE RED	(none)
DU010/210 QUINACRIDONE RED	(none)
DU011/211 QUINACRIDONE SCARLET	(none)
DU012/212 NAPHTHOL RED	(none)
DU013/213 CADMIUM RED DEEP	(none)
DU014/214 CADMIUM RED	(none)
DU015/215 CORAL RED	(none)
DU016/216 BRILLIANT PINK	(none)
DU018/218 CADMIUM ORANGE	(none)
DU019/219 IMIDAZOLONE ORANGE	(none)
DU020/220 ORANGE	(none)
DU021/221 NAPLES YELLOW	(none)
DU022/222 NAPLES YELLOW LIGHT	(none)
DU023/223 JAUNE BRILLIANT	(none)

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Product Color	Hazardous Ingredient
DU024/224 CREAM	(none)
DU025/225 YELLOW OCHRE NATURAL	(none)
DU026/226 IMIDAZOLONE YELLOW	(none)
DU027/227 IMIDAZOLONE YELLOW LIGHT	(none)
DU028/228 LEMON YELLOW	(none)
DU029/229 YELLOW OCHRE	(none)
DU030/230 AUREOLIN HUE	(none)
DU031/231 CADMIUM YELLOWLIGHT HUE	(none)
DU032/232 CADMIUM YELLOW HUE	(none)
DU033/233 CADMIUM YELLOW DEEP HUE	(none)
DU034/234 INDIAN YELLOW	(none)
DU035/235 GREENISH YELLOW	(none)
DU036/236 CADMIUM YELLOW LEMON	(none)
DU037/237 CADMIUM YELLOW	(none)
DU038/238 CADMIUM YELLOW DEEP	(none)
DU039/239 BENZIDINE YELLOW	(none)
DU040/240 VIRIDIAN HUE	(none)
DU041/241 EMERALD GREEN NOVA	(none)
DU042/242 COBALT GREEN	(none)
DU043/243 TERRE VERTE HUE	(none)

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<u>Product Color</u>	<u>Hazardous Ingredient</u>
DU044/244 SAP GREEN	(none)
DU045/245 CADMIUM GREEN LIGHT HUE	(none)
DU046/246 CADMIUM GREEN HUE	(none)
DU047/247 CADMIUM GREEN DEEP HUE	(none)
DU048/248 YELLOW GREEN	(none)
DU049/249 PRUSSIAN GREEN	(none)
DU050/250 LEAF GREEN	(none)
DU051/251 OLIVE GREEN	(none)
DU052/252 PHTHALO GREEN	(none)
DU053/253 PHTHALO GREEN YELLOW SHADE	(none)
DU054/254 COBALT GREEN LIGHT	(none)
DU055/255 COBALT GREEN DEEP	COBALT
DU056/256 CADMIUM GREEN LIGHT	(none)
DU057/257 CADMIUM GREEN	(none)
DU058/258 SHADOW GREEN	(none)
DU060/260 MINT GREEN	(none)
DU061/261 ICE GREEN	(none)
DU071/271 CERULEAN BLUE HUE	(none)
DU072/272 ULTRAMARINE LIGHT	(none)
DU073/273 PRUSSIAN BLUE	(none)

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<u>Product Color</u>	<u>Hazardous Ingredient</u>
DU074/274 INDIGO	(none)
DU075/275 COBALT BLUE HUE	(none)
DU076/276 TURQUOISE BLUE	(none)
DU077/277 NAVY BLUE	(none)
DU078/278 MANGANESE BLUE NOVA	(none)
DU079/279 GREEN BLUE	(none)
DU080/280 CERULEAN BLUE	(none)
DU081/281 COBALT BLUE	(none)
DU082/282 COBALT TURQUOISE	(none)
DU083/283 ULTRAMARINE DEEP	(none)
DU084/284 VERDITER BLUE	(none)
DU085/285 HORIZON BLUE	(none)
DU086/286 SKY BLUE	(none)
DU087/287 PHTHALO BLUE	(none)
DU088/288 INDANTHRENE BLUE	(none)
DU090/290 VIOLET	(none)
DU091/291 COBALT VIOLET	COBALT
DU092/292 MINERAL VIOLET	(none)
DU093/293 QUINACRIDONE VIOLET	(none)
DU094/294 DIOXAZINE VIOLET	(none)

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<u>Product Color</u>	<u>Hazardous Ingredient</u>
DU095/295 MAUVE	(none)
DU096/296 BLUE VIOLET	(none)
DU097/297 ROSE VIOLET	(none)
DU100/300 LIGHT MAGENTA	(none)
DU101/301 LILAC	(none)
DU102/302 LAVENDER	(none)
DU110/310 BROWN	(none)
DU111/311 TERRA ROSA	(none)
DU112/312 QUINACRIDONE GOLD	(none)
DU113/313 IMIDAZOLONE BROWN	(none)
DU115/315 RAW UMBER	(none)
DU116/316 RAW SIENNA	(none)
DU117/317 BURNT UMBER	(none)
DU118/318 BURNT SIENNA	(none)
DU119/319 SEPIA	(none)
DU120/320 BROWN PINK	(none)
DU130/330 ROSE GREY	(none)
DU131/331 YELLOW GREY	(none)
DU132/332 ORANGE GREY	(none)
DU133/333 GREEN GREY	(none)

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<u>Product Color</u>	<u>Hazardous Ingredient</u>
DU134/334 BLUE GREY	(none)
DU135/335 VIOLET GREY	(none)
DU136/336 PAYNE'S GREY	(none)
DU144/344 MONOCHROME 3 (V-4)	(none)
DU146/346 GREY OF GREY	(none)
DU148/348 MONOCHROME 1 (V-8)	(none)
DU150/350 IVORY BLACK	(none)
DU151/351 MARS BLACK	(none)
DU152/352 SPINEL BLACK	(none)
DU160/360 PERMANENT WHITE	(none)
DU161/361 TITANIUM WHITE	(none)
DU162/362 CERAMIC WHITE	(none)
DU170/370 LUMINOUS OPERA	(none)
DU171/371 LUMINOUS RED	(none)
DU172/372 LUMINOUS ORANGE	(none)
DU173/373 LUMINOUS LEMON	(none)
DU174/374 LUMINOUS GREEN	(none)
DU175/375 LUMINOUS VIOLET	(none)

Woodhall Stopford, MD, MSPH

Form Completed By: Woodhall Stopford, MD, MSPH
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