



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 ACRYLIC COLORS FLUID
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	81-72-985-1223
Date Prepared	2014-10-8
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§ 2 – HAZARD IDENTIFICATION

This product is water-based and not classified as dangerous for supply or conveyance.
The ingredients are water-reducible and falls well within the acceptable safety limits.

GHS label elements Void

Classification :	Non-regulated
Danger :	Nonflammable on product, and flammable after dry.
Hazard information :	Especially none
Ecological consideration :	Especially none

§ 3 – COMPOSITION / INGREDIENTS

Substance/Mixture: Mixture

Components	(Specific Chemical Identity, Common Name (s))	
Colorant *	(Pigment)	
Binder **	(Acrylic-Metacrylic Copolymer Emulsion)	CAS No. 25852-37-3
Dispersant	(Sodium Polycarboxylate)	CAS No. 25549-84-2
Moisturizer	(Propylene Glycol)	CAS No. 57-55-6
Thickener	(Polyacrylate)	CAS No. 9003-01-4
pH Agent	(Dimethylaminoethanol)	CAS No. 108-01-0
Preservative	(Benzimidazole)	CAS No. 148-79-8
Preservative	(Benzisothiazoline)	CAS No. 2634-33-5

* and ** are Main Ingredients.

§ 4 – FIRST AID MEASURES

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. Induce vomiting.
If you feel unwell, seek medical advice.

Skin Contact : Upon skin contact, wash with plenty of water, soap or other non-irritating cleansing agents.

Inhalation : Upon inhalation of aerosol/vapor, take the person to fresh air.
If there is difficulty in breathing, medical advice is required.

§ 5 – FIRE AND EXPLOSION HAZARD DATA

Flammability :	Not combustible unless dried up
Flash Point, Ignition Point :	Not below 100°C
Combustion Products :	Formation of carbon dioxide and oxide of metal according to pigment.
Extinguishing Method :	Regular
Extinguishing Media :	Water (Foam, Dry powder and Carbon dioxide, if necessary)
Precaution for Firefighters :	Do not inhale combustion gases.

§ 6 – ACCIDENTAL RELEASE MEASURES

Accidental Release Measures : Wipe off.
 Environmental Precautions : Prevent spills from entering storm sewers or drains and contact with soil.

§ 7 – HANDLING AND STORAGE

Precautions for Storing : Keep from freezing.

§ 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Avoid invasion to the eyes or body. Avoid prolonged or repeated contact with skin.
 Wash mouth or hands well after use. Avoid inhaling aerosols.

§ 9 – PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance and Odor : Colored Paste with faint acrylic odor
 Specific Gravity (H₂O = 1) : 1.06~1.28 (av. 1.145)
 Boiling Point : Approx. 100°C
 Vapor Density (Air = 1) : —
 Vapor Pressure (Butyl Acetate = 1) : simile. Water
 pH : 7.5~8.5
 Solubility in Water : Can be diluted. Not so, after dried.

§ 10 – HAZARD INFORMATION AND STABILITY

Physical Dangers : Nonflammable on product.
 Stability : Stable under normal state
 Reactivity : None
 Byproducts : Carbon dioxide, oxides of metals and water in case of fire.
 No thermal decomposition when stored and handled correctly.
 Incompatibility (Materials to Avoid) : None

§ 11 – TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, inhalation, swallowing
 Oral Toxicity : The products may flocculate by gastric acid. Toxicity of acrylic colors themselves is not confirmed.
 On pigments, to be noted. :
 Cobalt Blue, Cerulean Blue : Contains soluble Cobalt, induce anemia and heart or lungs damage. Actually, doesn't work as hazardous material.
 Eye irritation : Irritant, but damage the organization
 Skin irritation : Irritant by repeated or prolonged contact, and may cause inflammation.
 Inhalation Toxicity : Although some of raw materials are pointed to may stimulate eyes and respiratory organs with their vapor or mists under highly concentrated state, the toxic act of acrylic colors is not confirmed.

Carcinogenicity, Sensitization, Mutagenicity, Teratogenicity, Reproductive Toxicity :
 No data available on products.

§ 12 – ECOLOGICAL INFORMATION

Fish Toxicity : Emulsion may obstruct the breathing of fishes, in case of pouring the excess colors to river or pond.

§ 13 – DISPOSAL CONSIDERATIONS

Disposal Considerations : Dispose in accordance with national and/or local regulations.
 Avoid entry into the sewage system (danger of clogging).

§ 14 – TRANSPORT INFORMATION

Precautions for Transport : None, especially
 UN Class : N/A
 UN Number : N/A

§ 15 – REGULATORY INFORMATION

Danger Class : N/A (Not flammable liquid)
 Fire Service Law, Industrial Safety and Health Law : N/A
 Pollutant Release and Transfer Register : N/A
 Conforms 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 1 Safety informations of Acrylic Colors FLUID**

Name	Hazardous Ingredient	Name	Hazardous Ingredient
Aqua Blue	None	Pearl Silver	None
Bamboo Green	None	Pearl White	None
Burnt Sienna	None	Perylene Maroon	None
Burnt Umber	None	Phthalo Blue	None
Cerulean Blue	None	Phthalo Green	None
Cobalt Blue	None	Phthalo Turquoise	None
Dioxazine Violet	None	Primary Black	None
Greenish Yellow	None	Primary Cyan	None
Hansa Yellow	None	Primary Magenta	None
Hansa Yellow Lemon	None	Primary White	None
Hooker's Green	None	Primary Yellow	None
Imidazolone Brown	None	Pyrrole Orange	None
Imidazolone Orange	None	Pyrrole Red	None
Imidazolone Yellow	None	Pyrrole Rubin	None
Indanthrene Blue	None	Quinacridone Crimson	None
Isoindolinone Yellow	None	Quinacridone Gold	None
Lamp Black	None	Quinacridone Magenta	None
Luminous Lemon	None	Quinacridone Red	None
Luminous Opera	None	Quinacridone Violet	None
Manganese Blue Nova	None	Raw Sienna	None
Marigold	None	Raw Umber	None
Mauve	None	Sap Green	None
Naphthol Red	None	Sepia	None
Naphthol Red Deep	None	Shadow Green	None
Naphthol Red Light	None	Shell Pink	None
Naples Yellow	None	Titanium White	None
Nickel Azo Yellow	None	Ultramarine Blue	None
Oxide of Chromium	None	Viridian Hue	None
Payne's Grey	None	Yellow Ochre	None
Pearl Gold	None	Zinc White	None