



# SAFETY DATA SHEET

2018-11-13

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved OMB No.1218-0072

## § 1 - IDENTITY INFORMATION

Product Name (as used on label and list) : **HOLBEIN ACRYLIC COLORS**  
**IRIDESCENCE**    **CHROMASHINE Colors**  
**CHROMA PEARL Colors**

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**  
Preparer : **ALAKI, Yutaka**

## § 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.

Classification : Non-regulated  
Danger : Nonflammable  
Eye Effects : Category 2B / Causes eye irritation. Physically stimulates in the eyes, and may cause keratitis.  
Ecological consideration : See § 12

## § 3 - COMPOSITION / INGREDIENTS

Substance/Mixture : Mixture (\* : Main ingredient)

Components (Specific Chemical Identity, Common Name(s), C.I. No)

|              |   |                    |
|--------------|---|--------------------|
| Colorant *   | (Silvered, Silicated Aluminium) **      | CAS No. 7429-90-5  |
|              | (Titanated Borosilicate) ***            | CAS No. 65997-17-3 |
| 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    |
| pH Agent     | (Dimethylaminoethanol)                  | CAS No. 108-01-0   |
| Preservative | (Benzimidazole)                         | CAS No. 148-79-8   |
| Preservative | (Benzisothiazoline)                     | CAS No. 2634-33-5  |
| Water        |   | CAS No. 7732-18-5  |

\*\* : Applied for Chromashine colors

\*\*\* : Applied for Chroma Pearl colors

## § 4 - FIRST AID MEASURES

Eyes : In case of eye contact, NEVER rub. Then 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.

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## § 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability : Not combustible  
 Flash Point, Autoignition Point : Not below 100 ° C  
 Combustion Products : Formation of carbon dioxide and aluminium oxide  
 Extinguishing Method : Regular  
 Extinguishing Media : Water (Foam, Dry powder, CO<sub>2</sub>, if necessary)  
 Precaution for Firefighters : Do not inhale combustion gases.

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## § 6 - ACCIDENTAL RELEASE MEASURES

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

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## § 7 - HANDLING AND STORAGE

Storage Requirements : Keep from freezing

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## § 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.

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## § 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Colored Slurry  
 Odor : Mild acrylic odor  
 Specific Gravity (H<sub>2</sub>O = 1) : 1.11 ~ 1.16 (av. 1.14)  
 Boiling Point : Approx. 100 ° C (212F degrees)  
 Vapor Density (Air = 1) : —  
 Vapor Pressure (Butyl Acetate = 1) : Same as water  
 Evaporation Rate : Slower than ether  
 pH : 7.5 ~ 8.5  
 Solubility in Water : Can be diluted. Not so, after dried.

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## § 10 - HAZARD INFORMATION AND STABILITY

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

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## § 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, inhalation, swallowing, Ingestion  
 Oral Toxicity : The products may flocculate by gastric acid. Toxicity of  
 products themselves is not confirmed.  
 Since the pigments used on this products are originally for  
 cosmetics, they don't actually work as dangerous material.

Inhalation : 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.

Skin irritation : Irritant by repeated or prolonged contact, and may cause inflammation.

Eye irritation : Irritant, but not damage the organization

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

## § 12 - ECOLOGICAL INFORMATION

Fish Toxicity : It is pointed that acrylic polymer emulsion may obstruct the breathing of fishes, if excess products pours.

Persistence and Degradability : Not confirmed as a product. Involves colorant-contamination.

## § 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 Proper Shipping Name : Not applicable

UN Number : Not applicable

UN Hazard Class : Not applicable

Packing Group : N/A

## § 15 - REGULATORY INFORMATION

Danger Class : N/A (Not flammable paste)

Fire Service Law : N/A

Industrial Safety and Health Law : N/A

Pollutant Release and Transfer Register : N/A

IRIDESCENCE conforms to ACMI under ASTM D 4236.

ACMI : The Art & Creative Materials Institute, Inc.  
ASTM : American Society for Testing and Materials

## § 16 - OTHER INFORMATION

Notice: The information of this sheet is based on the present state of our knowledge and does not therefore guarantee certain properties.

## APPENDIX Table COLOR INFORMATION

| Ref. No. | Name               | Classification | Ref. No. | Name                | Classification |
|----------|--------------------|----------------|----------|---------------------|----------------|
| AC 971   | Chromashine Red    | AP             | AC 981   | Chroma Pearl Red    | AP             |
| AC 972   | Chromashine Orange | AP             | AC 983   | Chroma Pearl Yellow | AP             |
| AC 973   | Chromashine Yellow | AP             | AC 984   | Chroma Pearl Green  | AP             |
| AC 974   | Chromashine Green  | AP             | AC 985   | Chroma Pearl Blue   | AP             |
| AC 975   | Chromashine Blue   | AP             |          |                     |                |
| AC 976   | Chromashine Violet | AP             |          |                     |                |

Ingredients are shown on § 3.

AP : Approved Product : Contain no materials in sufficient quantities to be toxic or injurious to humans.