



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)	IRODORI
Manufacturer	HOLBEIN Works, Ltd.
Address	1-3-14, Hishiya-nishi, Higashi-osaka-shi, OSAKA 577-0807 JAPAN
Telephone Number for information	81-6-6723-1555
Emergency Telephone Number	81-72-985-1223
Date Prepared	2013-9-19
Preparer	ALAKI, Yutaka

§ 2 – HAZARD IDENTIFICATION

This product is water-based and not classified as dangerous for supply or conveyance.
The ingredients are waterreducible 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 :	Some colors are indicated as harmful. (cf. § 11 - TOXICOLOGICAL INFORMATION)
Ecological consideration :	Especially none

§ 3 – COMPOSITION / INGREDIENTS

Substance/Mixture : Mixture

Components	(Specific Chemical Identity, Common Name (s))
Colorant	(Pigment)*
Body	(Calcium Carbonate)** CAS 471-34-1
ditto	(Silica, Silicon Dioxide)** CAS 7631-86-9
Binder	(Gum Arabic)** CAS 9000-01-5
ditto	(Dextrine)** CAS No. 9004-53-9
Dispersant	(Sodium polycarbonate)*** CAS No. 25549-84-2
Moisturizer	(Glycerine) CAS 56-81-5
Preservative	(Benzisothiazoline) CAS 2634-33-5

* and ** are main ingredients.

* and ** are chosen alone or together according to individual color.

*** is not always used.

§ 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 :	N/A If there is difficulty in breathing, medical advice is required.

§ 5 – FIRE AND EXPLOSION HAZARD DATA

Flammability : N/A
Flash Point, Ignition Point : N/A
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.
Unusual Fire and Explosion Hazards : Material will not support combustion unless the water has evaporated.

§ 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 : None, especially

§ 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 unique odor
Specific Gravity (H₂O = 1) : Av. 1.45
Boiling Point : Approx. 100°C
Vapor Pressure (Butyl Acetate = 1) : simile. Water
Solubility in Water : Can be diluted. Can be influenced after dried.

§ 10 – HAZARD INFORMATION AND STABILITY

Physical Dangers : Nonflammable on product.
Stability : Stable under normal state
Reactivity : None
Byproducts : In case of fire, formation of carbon dioxide, oxides of metals and water.
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 : Although some of raw materials are pointed as some toxicity, the toxic act of them are not acute. Toxicity of water colors themselves is not confirmed.
Eye irritation : Irritant to some person, but do not damage the organization
Skin irritation : Irritant by repeated or prolonged contact, and may cause inflammation.
Inhalation Toxicity : Not been certified.

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

§ 12 – ECOLOGICAL INFORMATION

Fish Toxicity : Not been certified.

§ 13 – DISPOSAL CONSIDERATIONS

Disposal Considerations : Dispose in accordance with national and/or local regulations.

§ 14 – TRANSPORT INFORMATION

Precautions for Transport : None, especially
 UN Class, 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 COLOR INFORMATION

AP	Approved Product : Contain no materials in sufficient quantities to be toxic or injurious to humans.	Antique Magenta	AP
		Antique Ochre	AP
		Antique Olive Green	AP
CL	Cautionary Label : Any known health risks and with information on the safe and proper use of these materials	Antique Opal Green	AP
	N/A on this product.	Antique Orange	AP
		Antique Orange Yellow	AP
		Antique Pale Blue	AP
		Antique Peacock Blue	AP
		Antique Pink	AP
		Antique Pompadour	AP
		Antique Purple Red	AP
		Antique Red Ochre	AP
		Antique Red Orange	AP
		Antique Rose	AP
		Antique Russet Brown	AP
		Antique Seedling	AP
		Antique Silver	AP
		Antique Silver Grey	AP
		Antique Sky Blue	AP
		Antique Smoked Bamboo	AP
		Antique Spring Green	AP
		Antique Sun Yellow	AP
		Antique Turquoise	AP
		Antique Tyrian Purple	AP
		Antique Ultramarine	AP
		Antique Violet	AP
		Antique Violet Blue	AP
		Antique White	AP
		Antique Yellow Green	AP
Name	Hazardous ingredient		
Antique Amber	AP		
Antique Bamboo	AP		
Antique Black	AP		
Antique Bright Yellow	AP		
Antique Bronze Blue	AP		
Antique Brown	AP		
Antique Coral Red	AP		
Antique Crimson	AP		
Antique Cypress Bark	AP		
Antique Dandelion	AP		
Antique Dark Green	AP		
Antique Deep Red	AP		
Antique Elm Green	AP		
Antique Gold	AP		
Antique Green Oxide	AP		
Antique Grey Brown	AP		
Antique Jasper Green	AP		
Antique Jaune Brilliant	AP		
Antique Lemon	AP		