



Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No.1218-0072

Section 1 – IDENTITY INFORMATION

Product Name	Holbein Superior Artists' Oil Color, VERNET
Manufacturer	HOLBEIN Works, Ltd.
Address	1-3-20, Kamikosaka, Higashi-osaka-shi, OSAKA 577-0806 JAPAN
Telephone Number for information	81-6-6723-1555
Emergency Telephone Number	81-72-985-1223
Date Prepared	2011-1-20
Preparer	ALAKI, Yutaka

Section 2- HAZARD IDENTIFICATION

This product is not classified as dangerous for supply or conveyance.

Classification :	Non-regulated
Danger :	Not explosive. Not nonflammable (vegetable oil)
GHS label elements :	Void
Hazard information :	Practically not at harmful level (cf. 11 Toxicological Information)
Skin Irritation :	Category 3 (Long time or repeated contact may irritate to skin.)
Eye Effects :	Category 3 (When into eyes, may cause keratitis.)
Ingestive Effects :	Depends on individuals

Section 3- COMPOSITION / INGREDIENTS

Components (Specific Chemical Identity, Common Name(s))

Pigment *	: shown on Table of Appendix	
Aluminium Hydrate **	: $[Al_2SO_4(OH)_4 \cdot xH_2O \cdot 2Al(OH)_3]_n$	CAS No. 12408-53-8
Vegetable Oil *, ***,	: CH_2-OCOR	
	: $CH-OCOR$	CAS No. 8001-26-1
		or others
	: CH_2-OCOR	
Venetian Turpentine	:	CAS No. 8007-41-8
Metallic Soap (Drier)****	: ex; $(RCOO)_2Co$	CAS No. 61789-51-3

*: Main ingredient

**: Only in specified colors

***: Raw or polymerised Linseed oil or Poppy oil (Triglyceride of Linolic acid, Linolenic acid Oleic acid or Palmitic acid)

****: Naphthenate or Octoate of Cobalt, Manganese or Zirconium. In some colors, not applied.

Section 4- FIRST AID MEASURES

Eyes :	In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.
Ingestion :	Drink plenty of water. Induce vomiting. Contact and tell us the pigment information with the number shown as C.I. No. to confirm the ingredient pigment. Seek medical attention according to name of pigment.
Skin Contact :	Wash with mild soap and water.

Section 5- FIRE AND EXPLOSION HAZARD DATA

Flash Point : 306°C (As Linseed Oil. Not examined about products)
 Extinguishing Media : Water mist, Foam, Dry powder, CO2

Section 6- ACCIDENTAL RELEASE MEASURES

Step to Be Taken in Case Material Is Released or Spilled :
 Wipe out with rag or waste. Avoid entry into the sewage system (Drying oil may cause of clogging).

Section 7- HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing : Avoid prolonged or repeated contact with skin and eyes.
 Storage Requirements : Store below 50°C. Keep container closed tightly to prevent drying out.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

None (No data on products)

Section 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Colored paste with heavy viscosity
 Volatile : None
 Odor : as vegetable oil
 Specific Gravity (H₂O = 1) : 1.1~3.3 (av. = 1.7)
 Boiling Point : N/A
 pH : N/A
 Solubility in Water : Insoluble. Soluble in organic solvent

Section 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers : Not nonflammable (vegetable oil)
 Stability : Stable under normal state
 Reactivity : None
 Byproducts : Carbon dioxide, oxides of metals and water in case of fire.
 Incompatibility (Materials to Avoid) : None
 Hazardous Decomposition or Byproducts : Hazardous Decomposition or Byproducts : Products small amount of peroxides or aldehydes while dry or under high temperature. In case of fire, formation of carbon dioxide, water and oxides of metal (depending each pigments).

Section 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, swallowing
 Oral Toxicity (LC₅₀) : Differs by each colors. Not heavy if swallowed, nevertheless using harmful pigments. Even if hazardous, doesn't practically act acutely.
 The harmful pigments are noted on catalog as follows ;
 Cadmium group : Contains soluble Cadmium which may be harmful by ingestion. Exposure may cause damage to the kidneys or testes or harm to the developing fetus.
 Cobalt group, Aureolin and Cerulean Blue : Contains soluble Cobalt which may be harmful if swallowed. Exposure may damage heart or lungs.
 Silver White : Except from Japanese Poisonous and Deleterious Substances Control Law. According to the amount or period, may cause fatigue, headache, skin pallor, anaemia or sensory obstacle.

Skin irritation : Usually non irritant. Upon skin contact, wash with soap or other non-irritating cleansing agents.
 Eye irritation : None. Usually non irritant, but hurtable. When into eyes, may cause keratitis.
 Carcinogenicity : Cadmium and Cobalt pigments are listed as carcinogen. No data available on products.
 Sensitization : Not expected
 Mutagenicity : N/A
 Teratogenicity : None known

Section 12 - ECOLOGICAL INFORMATION

No suitable information

Section 13- DISPOSAL CONSIDERATIONS

Disposal Considerations : May be transported to incinerator or if necessary after suitable conditioning to refuse dump if local regulations are observed.

As being filled in aluminium tube, this products may be treated as incombustible according to to all federal, state or governmental regulations.

Stained cloths or papers which has been used to wipe or so on are so flammable that they had better been wetted with water.

Section 14- TRANSPORT INFORMATION

Transport Hazard Class : Non-regulated. Out of case of general notice on flammability.

Section 15- REGULATORY INFORMATION

Ready to be conformed to ACMI, Art & Creative Materials Institute, under ASTM D 4236.

Industrial Safety and Health Law : N/A

Fire Service Law : Dangerous Materials Group 4

High Pressure Gas Safety Law : N/A

Section 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 Pigment of VERNET

Name	C.I.Name	Pigment Chemically Indicated)
Alizarin Crimson	PR83	Alizarin Lake
Cadmium Red	PR108	Cadmium Sulfo-Selenide
Pyrrol Red	PR254	DPP pigment
Vermilion	PR106	Mercury Sulfide
Pyrrol Orange	PO73	DPP pigment
Cadmium Orange	PR108	Cadmium Sulfo-Selenide
Nickel Azo Yellow	PY150	Nickel Azo pigment
Aureolin	PY40	Potassium Cobaltinitrite
Yellow Ochre	PY43, PY42	Native Ochre, Hydrous Iron Oxide
Cadmium Yellow	PY35, PR108	Cadium Sulfide, Cadmium Sulfo-Selenide
Imidazolone Yellow	PY154	Imidazolone pigment
Bismuth Yellow	PY184	Bismuth Vanadate
Oxide of Chromium	PG17	Anhydrous Chromium Sesquioxide
Terre Verte	PG23	Native Green Earth
Cobalt Green	PG19	Zinc Cobalt Oxide
Viridian	PG18	Hydrous Chromium Sesquioxide
Phthalocyanine Green	PG7	Polychloro Copper Phthalocyanine
Perylene Green	PBk31	Perylene pigment
Cobalt Turquoise	PB28	Cobalt Aluminate
Cerulean Blue	PB35	Cobalt Stannate
Cobalt Blue	PB28	Cobalt Aluminate
Phthalocyanine Blue	PB15:3	Copper Phthalocyanine
Prussian Blue	PB27	Ammonium Ferric Ferrocyanide
Ultramarine Blue	PB29	Complex of Silica, Alumina Soda & Sulphur
Indanthrene Blue	PB60	Indanthrene pigment
Dioxazine Violet	PV23	Dioxazine pigment
Mineral Violet	PV16	Manganese Phosphate
Cobalt Violet	PV47	Cobalt Lithium Phosphate
Quinacridone Magenta	PR122	Quinacridone pigment
Light Red	PR101	Iron Oxide
Transparent Gold Oxide	PY42	Hydrous Iron Oxide
Raw Sienna	PY43	Native Earth (Hydrous Iron Oxide)
Raw Umber	PBr7	Native Earth (Iron-Manganese Oxide-Hydroxide)
Burnt Sienna	PBr7	Native Earth(Iron-Oxide), Native Earth (Iron-Manganese Oxide)
Burnt Umber	PBr7	Native Earth(Iron-Manganese Oxide)
Ivory Black	PBk9	Carbon Calcium Phosphate (Genuine Ivory)
Lamp Black	PBk6	Carbon
Silver White (Linseed)	PW1	Basic Lead Carbonate
Silver White (Poppy)	PW1	Basic Lead Carbonate
Titanium White	PW6	Titanium Dioxide