



## SAFETY DATA SHEET

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

Ref. No.	Product Name	
O 509, O 409, O 309	Painting Varnish	(Vernis a Peindre)
O 549, O 449	Odorless Painting Varnish	(Vernis a Peindre, Inodore)
O 528	Venetian Turpentine	
O 511, O 411, O 311	Retouching Varnish	(Vernis a Retoucher)
O 510, O 410, O 310	Picture Varnish	(Vernis a Tableaux)
O 420, O 320	Picture Varnish, Rapid	(Vernis Rapide a Tableaux)
O 519	White Mat Varnish	(Blanc Mat Liquide)
	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	2015-2-26
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### § 2 – HAZARD IDENTIFICATION

Classification :	Flammable Liquid, Category 3	
Hazard information :	Irritant to eyes and skin. Inhalation of concentrated vapor irritates eyes and/or bronchial pathway, or may influence to central nerve.	
Acute toxicity :	Category 4	
Skin Irritation :	Category 3	
Eye Effects :	Category 2B	
Respiratory Sensitization :	Category 1/Inhalation may cause allergy, asthma or dyspnea	
Skin Sensitization :	Category 1/Inhalation may cause allergic dermatitis.	

### § 3 – COMPOSITION / INGREDIENTS

		Resin	Solvent	Additive
Painting Varnish	(Vernis a Peindre)	1	6	9
Odorless Painting Varnish	(Vernis a Peindre, Inodore)	2	7	9
Venetian Turpentine		3	8	
Retouching Varnish	(Vernis a Retoucher)	1	6	
Picture Varnish	(Vernis a Tableaux)	2	6	
Picture Varnish, Rapid	(Vernis Rapide a Tableaux)	4	6	
White Mat Varnish	(Blanc Mat Liquide)	5	6	10
	Components (Specific Chemical Identity, Common Name(s))			CAS No.
1	Dammar Resin	Various Resin Acids		9000-16-2
2	Synthetic Resin	Not public		Registered
3	Venetian Turpentine (Balsam)	Various Resin Acids		8007-41-8
4	Acrylic Resin	Butyl Acrylate-Methyl Methacrylate Copolymer		25852-37-3
5	Bees wax *	Esters of Fatty Acids, Long-chain Alcohols		8012-89-3
6	Mineral Spirit	Fractionally distilled petroleum		8052-41-3

7	Isoparaffin		Registered
8	Spirits of Turpentine	Alpha-pinene	8006-64-2
9	Poppy Oil	Esters of Fatty Acids	8002-11-7
10	Silica	SiO <sub>2</sub>	112945-52-5

\* : Bees wax does not belong to the resins.

#### § 4 – FIRST AID MEASURES

Inhalation :	Remove to fresh air.
Ingestion :	Do NOT induce vomiting, except in case of excess swallowing. Ask immediately for medical doctor.
Eyes :	In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.
Skin Contact :	Upon skin contact, wash with plenty of water, soap or other non-irritating cleansing agents.

#### § 5 – FIRE AND EXPLOSION HAZARD DATA

Flammability :	Flammable	Flash Point (°C)	Autoignition Temp (°C)
Painting Varnish (Vernis a Peindre)		13.3	210
Odorless Painting Varnish (Vernis a Peindre, Inodore)		48	–
Venetian Turpentine		37.3	278
Retouching Varnish (Vernis a Retoucher)		11	470
Picture Varnish (Vernis a Tableaux)		43.5	210
Picture Varnish, Rapid (Vernis Rapide a Tableaux)		45.2	–
White Mat Varnish (Blanc Mat Liquide)		43.5	210
Extinguishing Method :	Take off fire or other flammable materials, and use with extinguishing tools.		
Extinguishing Media :	Foam, Dry powder, CO <sub>2</sub>		
Unusual Fire and Explosion Hazards :	None		

#### § 6. – ACCIDENTAL RELEASE MEASURES

Step to Be Taken in Case Material Is Released or Spilled :	Take up with absorbent materials.
Prevention of Secondary Disaster :	Take off fire or other flammable materials.
Personal Consideration :	Use mechanical ventilation
Environmental Precautions :	Prevent spills from entering storm sewers or drains.

#### § 7. – HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing :	Avoid prolonged or repeated contact with skin and eyes.
Storage Requirements :	Keep from fire or flammable materials. Do not allow product temperature to rise high.
Handling Procedures/Equipment :	Treat as paint product.

#### § 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls :	Use mechanical ventilation when applying.
Personal Protection :	Avoid inhaling aerosols.

#### § 9 – PHYSICAL / CHEMICAL CHARACTERISTICS

	Odor	Boiling Point (°C)	Specific Gravity (H <sub>2</sub> O = 1)
Painting Varnish (Vernis a Peindre)	1	54.7~197	0.87
Odorless Painting Varnish (Vernis a Peindre, Inodore)	2	166~190	0.83
Venetian Turpentine	3	155	0.86
Retouching Varnish (Vernis a Retoucher)	1	64~197	0.85
Picture Varnish (Vernis a Tableaux)	1	154~197	0.86
Picture Varnish, Rapid (Vernis Rapide a Tableaux)	1	147~199	0.84
White Mat Varnish (Blanc Mat Liquide)	1	154~197	0.80

1. Petroleum smell
2. Weak petroleum smell
3. Terpenic smell

## § 10 – HAZARD INFORMATION AND STABILITY

Physical Dangers :	Flammable
Stability :	Stable under normal state
Reactivity :	None
Byproducts :	Carbon dioxide, water and dioxide of cobalt.
Hazardous Decomposition or Byproducts :	No thermal decomposition when stored and handled correctly.
Incompatibility (Materials to Avoid) :	None
Corrosive Behavior :	None

## § 11 – TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, swallowing

Oral Toxicity : LD50

Painting Varinish (Vernis a Peindre)	} > 5,000 (Rat, Mineral spirits)
Retouching Varnish (Vernis a Retoucher)	
Picture Varnish (Vernis a Tableaux)	
Picture Varnish, Rapid (Vernis Rapide a Tableaux)	
White Mat Varnish (Blanc Mat Liquide)	} > 20,000 (Rat, Iso paraffin) > 3,700 (Spirits of turpentine)
Odorless Painting Varinish (Vernis a Peindre, Inodore)	
Venetian Turpentine	

Ingestion : Although the effect or toxicity of swallowing is not serious, the liquid or vapor based on swallowing or vomiting may cause of bronchitis or pulmonary edema.

Inhalation Toxicity : Inhalation of concentrated vapor irritates eyes and/or bronchial pathway, induces dizziness or headache, or influences to central nerve. Chronic inhalation of excess vapor may cause pneumonia. (Mineral spirits)

High density vapor irritates respiratory organ, and induces dizziness, headache, anesthesia, slumber or the effect to central nervous system. (Spirits of turpentine)

Effects of Acute Exposure : None known

Eye irritation : Usually irritant to the eye mucous membrane

Skin irritation : Long time or repeated contact may irritate to skin and may cause inflammation.

Repeated Exposure : Inhalation of mist may cause irritation of bronchial pathway and/or stupor.

Chronical excess inhalation in long time of mist induces inflammation of lung, and may cause fibrosis on pulmonary artery.(Mineral sprits).

: Weak smell may not call the attention. (Odorless petroleum)

Sensitization, Reproductive Toxicity : No data available on product.

Mutagenicity : Mutagenicity was not confirmed with testing on rat by typhoid bacilli, testing on mouse by lymphocyte or testing on rat by marrow cell. (Mineral spirit)

Carcinogenicity : IARC (The International Agency for Research on Cancer) classifies mineral spirit in Group 3, not classifiable agent as to its carcinogenicity to humans. (Mineral sprits)

Teratogenicity : Teratogenicity was not confirmed with testing on pregnant rat by vapor exposure between six to fifteen days in the 100ppm and 365 ppm. (Mineral sprits)

## § 12 – ECOLOGICAL INFORMATION

Not been confirmed

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### § 13 – DISPOSAL CONSIDERATIONS

Disposal Considerations : To be incinerated.  
Waste Disposal Method : Stained cloths or papers which has been used to wipe or so on are so flammable that they had better been wetted with water.

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### § 14 – TRANSPORT INFORMATION

Hazard Class : Class 3 (Flammable)  
UN number :  
1268 (Mineral spirits) — Painting Varnish (Vernis a Peindre)  
— Odorless Painting Varnish (Vernis a Peindre, Inodore)  
— Retouching Varnish (Vernis a Retoucher)  
— Picture Varnish (Vernis a Tableaux)  
— Picture Varnish, Rapid (Vernis Rapide a Tableaux)  
— White Mat Varnish (Blanc Mat Liquide)  
1299 — Venetian Turpentine

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### § 15 – REGULATORY INFORMATION

Conforms to ACMI, Art & Creative Materials Institute, under ASTM D 4236  
Industrial Safety and Health Law : Flammable organic solvent  
Fire Service Law (Japan) : Dangerous Materials ; Group 4, Petroleum Category 2  
Regulation to Control Dangerous Materials : Conforms to article 41 and below.  
High Pressure Gas Safety Law : N/A

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### § 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.