



SAFETY DATA SHEET

2017-3-30




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)
OMB No.1218-0072

§ 1 - IDENTITY INFORMATION

Ref. No.	Product Name (as used on label and list)	
O 323, O 423, O 523	Retouching Varnish	(Vernis a Retoucher)
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

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 2~Category 3	
Eye Effects :	Category 2A	
Respiratory Sensitization :	Category 1/Inhalation may cause allergy, asthma or dyspnea.	
Skin Sensitization :	Category 1/May cause allergic dermatitis	 

§ 3 - COMPOSITION / INGREDIENTS

Substance/Mixture :	Mixture (* : main ingredient)	
Components	(Specific Chemical Identity, Common name(s), C.I. No)	CAS. No.
Dammar Resin *	Various Resin Acids	9000-16-2
Naphtha	Hydrated Heavy Petroleum	64742-48-9
Glycol-ether	C8H18O3	11109-77-4
Alcohols	Registered	Registered

§ 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 : 11 °C

Extinguishing Method :	Take off fire or other flammable materials, and use with extinguishing tools.
Extinguishing Media :	Foam, Dry powder, CO ₂
Unusual Fire and Explosion Hazards :	None

§ 6 - ACCIDENTAL RELEASE MEASURES

Step to Be Taken in Case Material Is Released or Spilled :

	Then 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:	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.
Threshold Limit Value :	197ppm (hydrocarbons)

§ 9 - PHYSICAL / CHEMICAL CHARACTER

Odor :	Mild petroleum smell
Boiling Point :	64~197 °C
Specific Gravity :	0.85
Solubility :	Insoluble

§ 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers :	Flammable
Stability :	Stable under normal state
Incompatibility (materials to avoid) :	None
Byproducts :	Carbon dioxide and water
Hazardous Decomposition :	No thermal decomposition when stored and handled correctly.
Corrosive Behavior :	None

§ 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry :	Dermal, eye contact, swallowing
Oral Toxicity :	LD ₅₀ > 15,000 (mg/kg, Rat, Naphtha)
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 :	May cause central nervous system effects. (Naphtha)
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 are anesthetic and may have other central nervous system effects..(Naphtha).
Sensitization, Reproductive Toxicity, Mutagenicity, Teratogenicity :	No data available on product.

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

§ 12 - ECOLOGICAL INFORMATION

No suitable information

§ 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations : To be incinerated.

Waste Disposal Method : In accordance with local official regulations, pass on to an appropriate incinerating plant or depository.

§ 14 - TRANSPORT INFORMATION

Hazard Class : Class 3 (Flammable)
 UN number : 1263 (Varnish)
 Packing Group : II

§ 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 appendix.
 High Pressure Gas Safety Law : N/A

§ 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

Information of Retouching Varnish (Vernis a Retoucher)

Hazardous Ingredient : Naphtha
 Classification : CL

AP Approved Product : Contain no materials in sufficient quantities to be toxic or injurious to humans.
 CL Cautionary Label : Any known health risks and with information on the safe and proper use of these materials