



SAFETY DATA SHEET

2022-3-31

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

Product Name (as used on label and list) : **Dammar Varnish (O 424)**

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 influences to central nerve.
 Acute toxicity : Category 4
 Skin Irritation : Category 3
 Eye Effects : Category 2B
 Respiratory Sensitization : Category 2/Inhalation may cause allergy, asthma or dyspnea.
 Skin Sensitization : Category 1/May cause allergic dermatitis



§ 3 - COMPOSITION / INGREDIENTS

Substance/Mixture : Mixture

Components	(Specific Chemical Identity, Common name(s), C.I. No)	CAS. No.
Dammar Resin	Various Resin Acids	9000-16-2
Spirits of Turpentine	C ₁₀ H ₁₆	8006-64-2

§ 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 : 31 °C
 Autoignition Point : 278 °C
 Extinguishing Method : Take off fire or other flammable materials, and use with extinguishing tools.
 Extinguishing Media : Foam, Dry powder, CO₂

Unusual Fire and Explosion Hazards : None

§ 6 - ACCIDENTAL RELEASE MEASURES

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

Prevention of Secondary Disaster :	Then take up with absorbent materials.
Personal Consideration :	Take off fire or other flammable materials.
Environmental Precautions :	Use mechanical ventilation.
	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.

§ 9 - PHYSICAL / CHEMICAL CHARACTER

Appearance :	Pale yellow colorless~semi-clouded liquid
Odor :	Terpenic smell
Boiling Point :	155 ° C
Vapor pressure :	800 Pa (30 ° C)
Explosion Limit :	1~7 %
Specific Gravity :	0.91
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 =3,700 mg/kg
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 :	High density vapor, 1000 ppm, irritates respiratory organ, and induces dizziness, headache, anesthesia, slumber or the effect to central nervous system.
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.
Carcinogenicity, Sensitization, Reproductive Toxicity, Mutagenicity, Teratogenicity :	No data available on product.

§ 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

UN Proper Shipping Name : Flammable liquid

Hazard Class : Class 3 (Flammable)

UN number : 1263 (Varnish)

Packing Group : III

§ 15 - REGULATORY INFORMATION

Industrial Safety and Health Law : Flammable organic solvent

Fire Service Law (Japan) : Dangerous Materials ; Group 4
Petroleum Category 2

Regulation to Control Dangerous Materials (Japan) : Conforms to article 41 and appendix.

High Pressure Gas Safety Law : N/A

Conforms to ACMI, Art & Creative Materials Institute under ASTM D 4236, and is classified into CL genre of ACMI system.

CL : Cautionary Label : Any known health risks and with information on the safe and proper use of this material.

§ 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.