

2025-11-18

SAFETY DATA SHEET

May be used to comply with U.S. Department of Labor
OSHA's Hazard Communication Standard, Occupational Safety and Health Administration
29 CFR 1910. 1200. (Non-Mandatory Form)
Standard must be consulted for specific requirements. OMB No.1218-0072

§ 1 - IDENTITY INFORMATION

Product Name (as used on label and list) :

DO 405, DO 505, DO 655 **DUO Painting Oil Medium**

Manufacturer : HOLBEIN Works, Ltd.

Address : 1-3-14, Hishiya-nishi, Higashi-osaka-shi
OSAKA 577-0807, JAPAN

Telephone Number for information : 81-6-6191-7722

Emergency Telephone Number : 81-72-985-1222 (HOLBEIN Labo, Ltd.)

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 1/Inhalation may cause allergy, asthma or dyspnea.

Skin Sensitization : Category 1/Inhalation may cause allergic dermatitis.



§ 3 - COMPOSITION / INGREDIENTS

The hazardous component of this product is solvents (cf. §11).

The other ingredients are vegetable oil (polymerized), resin (synthetic) and additives (dryer and surfactant).

§ 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 water, soap or other non-irritating cleansing agents.

§ 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability : Combustible

Flash Point : 44.3 °C

Autoignition Temp : > 200°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 : 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

Appearance : Clear yellow liquid
 Odor : Mild petroleum smell
 pH : N/A
 Boiling Point : 156~200 ° C
 Specific Gravity (H₂O = 1) : 0.84
 Solubility in Water : Dispersible

§ 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers : Combustible
 Stability : Stable under normal state
 Reactivity : None
 Byproducts : Carbon dioxide, water and dioxide of cobalt.
 Hazardous Decomposition or Byproducts : In case of fire, forms carbon dioxide and water.
 Incompatibility (Materials to Avoid) : None
 Corrosive Behavior : None

§ 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, swallowing
 Oral Toxicity (LD₅₀) : 20 g/kg
 Inhalation Toxicity : Inhalation of concentrated vapor irritates eyes and/or bronchial pathway, induces dizziness or headache, or influences to central nerve.
 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.
 Sensitization, Reproductive Toxicity : No data available on product.
 Mutagenicity, Carcinogenicity, Teratogenicity : No data available

§ 12 - ECOLOGICAL INFORMATION

Not been confirmed

§ 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.

§ 14 - TRANSPORT INFORMATION

UN Proper Shipping Name : Flammable Liquid
Hazard Class : Class 3 (Flammable)
UN number : 1263
Packing Group : III

§ 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 : 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

§ 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 HEALTH INFORMATION

DUO Painting Oil is classified as CL product in the ACMI system.

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