



2016-10-31

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

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 1/Inhalation may cause allergy, asthma or dyspnea.  
 Skin Sensitization : Category 1/Inhalation may cause allergic dermatitis.



### § 3 - COMPOSITION / INGREDIENTS

Components (Specific Chemical Identity, Common Name(s), C.I. No)	CAS. No.
Polymerized Linseed Oil *	67746-08-1
Synthetic Resin	69430-35-9
Solvent (Naphtha, Hydrated Heavy Petroleum)	64742-48-9
Dryer (Metallic soap, Ex; Cobalt Naphthenate, (RCOO) <sub>2</sub> Co)	61789-51-3
Surfactant	Registered

\*: Vegetable drying oil (Triglyceride of Linolic, Linolenic, Oleic and/or Palmitic acid)

### § 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.

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## § 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability : Combustible  
Flash Point : 44.3 °C  
Autoignition Temp : 263°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

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## § 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.

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## § 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.

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## § 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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## § 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Clear yellow liquid  
Odor : Mild petroleum smell  
pH : N/A  
Boiling Point : 156~200 °C  
Specific Gravity (H<sub>2</sub>O = 1) : 0.84  
Solubility in Water : Dispersible

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## § 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

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## § 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, swallowing  
Oral Toxicity (LD<sub>50</sub>) : 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

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## § 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

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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 : 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.

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## 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